



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

I.7.1

I.7. The Faculty Development Program is implemented with the following provisions:

I.7.1 adequate and qualified supervision of faculty;

Documents attached:

- FACULTY PROFILE MATRIX INVOLVED IN THE PROGRAM (CORE FACULTY)
- SUMMARY OF OPCR RATING



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**

Faculty Profile Matrix Involved in the Program (Core Faculty)

Faculty	Academic Rank	Educational Attainment	School Graduated From	Field of Specialization	Licensure Examinations Passed	Length of Teaching Experience	Status of Appointment (Permanent, Temporary, Contractual)	Subjects Handled
1. Ado, Remedios G.	Associate Professor V	Doctor in Educational Management (DEM)	Polytechnic University of the Philippines (PUP)	Computer Engineering		33 yrs.	Permanent	Logic Circuit, Adv. Logic Circuit Design, Design Project I & II, Microprocessor, Computer Technopreneuship, Computer Seminar & Field Trips, OJT
		Master of Engineering – Computer	Pamantasan ng Lungsod ng Maynila (PLM)					
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
2. Canlas, Arlene B.	Instructor I	Master of Science in Information Technology (MSIT) (Completed Academic Units)	Polytechnic University of the Philippines (PUP)	Computer Engineering		9 yrs.	Part-time	Elective 1, Elective 2, Computer system Administration, Computer Networks
		BS Computer Engineering	Polytechnic University of					



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			the Philippines (PUP)					
3. Cansino, Julius S.	Assistant Professor IV	Master of Science in Information Technology (MSIT)	Polytechnic University of the Philippines (PUP)	Computer Engineering	NC II – 1913160201302 1	23 years	Permanent	Design Project I & II, Logic Circuits and Switching Theory, Adv. Logic Circuits., Data Structure&Algo. Analysis, Computer Seminar & Field Trips, OJT, Computer Fundamentals & Programming, Computer Network
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
4. Chin, Frank Anthony R.	Instructor I	Master of Science in Engineering – Computer Engineering (units earned)	Polytechnic University of the Philippines (PUP)	Computer Engineering		2 years	Temporary Regular	Computer Engineering Technology 2, Computer Fundamentals & Programming, Elective 3,
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
5. De La Cruz, Arvin R.	Associate Professor IV	Ph. D. in Management	Adamson University (AdU)	Computer Engineering	NC II – 1913160201302 0	21 years	Permanent	Design Project II, Object Oriented Programming, Systems Analysis & Design, Software Engineering,
		MS Management Engineering	Adamson University (AdU)					



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		BS Computer Engineering	Adamson University (AdU)					Methods of Engineering Research, Elective 1
6. Dela Cruz, John Rocello	Instructor I	Master of Science in Electronics and Communications Engineering (Thesis Writing)	De La Salle University	Electronics and Communication Engineering	PRC 0056324	5 years	Part-time	Principle of Communication, Numerical Methods for Engineering with Programming Applications, Data Communication, Digital Signal Processing, Microprocessor System
		Bachelor of Science in Electronics and Communication Engineering	Polytechnic University of the Philippines (PUP)					
7. Delos Reyes, Norman David F.	Instructor I	Doctor in Educational Management (Completed academic requirements)	Polytechnic University of the Philippines (PUP)	Computer Engineering	Civil Service Professional Career Executive	10 yrs.	Part-time	Numerical Methods for Engineering with Programming Applications, Logic Circuits and Switching Theory, Advanced Logic Circuits Design, Discrete Mathematics, Computer Project Management
		Master in Government Management	Pamantasan ng Lungsod ng Maynila					
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
8. Fernando, Ronald D.	Assistant Professor II	Master of Science in	Polytechnic University of the	Electronics and Communications Engineering		30 yrs.	Permanent	Computer Engineering Technology 1,



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		Engineering – ECE (units earned)	Philippines (PUP)					Computer Engineering Technology 2, Electronics I & II, Circuits 1&2, OJT, Design Project, Computer Hardware and Fundamentals
		Bachelor of Science in Electronics and Communication Engineering	Polytechnic University of the Philippines (PUP)					
9. Lorico, Julian L.	Instructor I	Doctor of Philosophy in Technology Management (Passed the comprehensive exam)	Technological University of the Philippines (TUP)			29 yrs.	Part-time	Systems Analysis & Design, Fundamentals of Programming, Data Structures and Algorithm Analysis, Computer Project Management, Elective 1, Elective 2, Object oriented Programming, Software Engineering, Methods of Engineering Research
		Master of Science in Engineering – Computer Engineering (units earned)	Polytechnic University of the Philippines (PUP)					
		Master in Business Administration	Jose Rizal University (JRU)					
		BS Computer Engineering	Adamson University (AdU)					
10. Madrigalejos, Danilo Jr. C.	Instructor I	Master of Science in Engineering –	Polytechnic University of the	Computer Engineering		11 years	Part-time	Object Oriented Programming, Numerical Methods



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		Computer Engineering (units earned)	Philippines (PUP)					for Engineering with Programming Applications, Elective 3, Computer System Organization with Assembly Language, Advanced Logic Circuits Design
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
11. Mahaguay, Rolito L.	Instructor II	Master of Engineering – Computer Engineering	Polytechnic University of the Philippines (PUP)	Computer Engineering	NC II – 19131602013024	16 yrs.	Permanent	Computer System Architecture, Microprocessor System, Design Project 2, OJT, Computer Networks, Logic Circuit & Switching Theory, Computer System Organization with Assembly Language
		BS Computer Engineering	Technological Institute of the Philippines (TIP)					
12. Natividad, Ferdinand O.	Assistant Professor II	Master of Science in Information Technology (MSIT)	Polytechnic University of the Philippines (PUP)	Electronics and Communication Engineering		27 years	Permanent	Circuits 2, Design Project 2, OJT, Computer Engineering Technology 2, Computer Networks, Control System, Computer Engineering as a Discipline,
		Bachelor of Science in Electronics and Communication Engineering	Polytechnic University of the Philippines (PUP)					



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								Electronics Circuits Analysis and Design, Microprocessor Systems
13. Natividad, Mark Kervin Z.	Instructor I	Master of Science in Engineering – ECE (units earned)	Polytechnic University of the Philippines (PUP)	Electronics and Communication Engineering	PRC 0062322	3 yrs.	Part-time	Data Communication, Principle of Communication, Digital Signal Processing
		Bachelor of Science in Electronics and Communication Engineering	Technological Institute of the Philippines (TIP)					
14. Oquindo, Florinda H.	Associate Professor IV	Master in Information Technology (MIT)	Polytechnic University of the Philippines (PUP)	Computer Engineering		22 yrs.	Permanent	Design Project I & II, Principle of Communication, Operating System, Computer Seminar & Field Trips, OJT, Data Communication, Control System
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
15. Pajabera, Orlando V.	Instructor II	Master in Information Technology (MIT)	Polytechnic University of the Philippines (PUP)	Computer Engineering	NC II – 1913160201302 2	18 yrs.	Permanent	Computer System Architecture, Operating System, Computer Networks, Microprocessor System, Computer System
		BS Computer Engineering	Far Eastern University (FEU)					



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								Organization with Assembly Language, Computer System Administration, Elective 2
16. Reyes, Lutzer U.	Associate Professor IV	Doctor in Business Administration	Polytechnic University of the Philippines (PUP)	Computer Engineering	7 years	Permanent	Logic Circuits Design, Advanced Logic Circuits, ., Project Management, Total Quality Management in Computer Engineering, Computer Project Management, Computer Technopreneurship	
		Master of Science in Engineering Management	Adamson University (AdU)					
		BS Computer Engineering	Adamson University (AdU)					
17. Rodriguez, Joshua Benjamin B.	Instructor I	Master of Science in Engineering – Computer Engineering (units earned)	Polytechnic University of the Philippines (PUP)	Computer Engineering	NC II – 1913160201302 5	4 yrs.	Part-time	Advanced Logic Circuits Design, Digital Signal Processing, Programming Logic and Design, Advanced Engineering Mathematics for Computer Engineering, Numerical Methods for Engineering with Programming
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
		BS Computer Engineering	Polytechnic University of the					



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			Philippines (PUP)					Applications, Logic Circuits and Switching Theory, Digital Signal Processing
18. Tenerife, Pedrito Jr. M.	Associate Professor III	Doctor of Technology (Dissertation Writing)	Technological University of the Philippines (TUP)	Computer Engineering	LET 0823617 Civil Service Professional	22 yrs.	Permanent	Computer Fundamentals and Programming, Data Structure & Algorithm Analysis, Computer Engineering Ethics & Computer Laws, Design Project I & II, Computer Seminar & Field Trips, Operating System, Software Engineering, Elective 2, OJT
		Master in Information Technology (MIT)	Polytechnic University of the Philippines (PUP)					
		Master of Arts in Teaching major in Instructional Technology (MAT)	Marikina Polytechnic College (MPC)					
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
19. Tubola, Orland D.	Assistant Professor III	PhD Energy Engineering	University of the Philippines (UP)	Electronics and Communication Engineering	PRC 44876	7 yrs	Permanent	Digital Signal Processing, Numerical Methods for Engineering with Programming Applications, Advanced Engineering
		MS in Electronics and Communications Engineering	De La Salle University (DLSU)					



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		major in Microelectronics						Mathematics for Computer Engineering, Data Communications
		Bachelor of Science in Electronics and Communication Engineering	Polytechnic University of the Philippines (PUP)					
20. Velasco, Antonio Y.	Associate Professor IV	Doctor in Developmental Education	Metro Manila College	Computer Engineering		25 yrs.	Permanent	Computer Engineering Safety Management, Computer Project Management, Computer Engineering Ethics and Computer Laws, Computer Technopreneurship , Computer Technopreneurship , Methods of Engineering Research, Computer Seminar & Field Trips, OJT, Design Project I & II
		Master of Engineering Program	Technological University of the Philippines (TUP)					
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					
		BS Computer Engineering	Polytechnic University of the Philippines (PUP)					

Prepared by:


Pedrito M. Tenerife Jr.



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Summary of OPCR Rating



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Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
Sta. Mesa, Manila

New Rat
2/28/19

SUMMARY LIST OF OFFICE RATINGS

Name of Sector : **ACADEMIC SECTOR**
Head of the Sector : **DR. MANUEL M. MUHI**
Number of Offices : **Twenty-Five (25)**

Name College / Office / Department	JANUARY - JUNE		JULY - DECEMBER		JANUARY - DECEMBER (Weighted-Average of two (2) periods)	
	Numerical Rating	Adjectival Rating *	Numerical Rating	Adjectival Rating	Numerical Rating	Adjectival Rating
1. Office of the Vice President for Academic Affairs (OVPA)	4.48557	Very Satisfactory	4.55563	Outstanding	4.53368	Outstanding
2. College of Accountancy and Finance (CAF)	4.66971	Outstanding	4.03655	Very Satisfactory	4.18918	Very Satisfactory
3. College of Architecture and Fine Arts (CAFA)	4.30937	Very Satisfactory	3.94186	Very Satisfactory	4.02882	Very Satisfactory
4. College of Arts and Letters (CAL)	4.24210	Very Satisfactory	4.20469	Very Satisfactory	4.24452	Very Satisfactory
5. College of Business Administration (CBA)	4.61299	Outstanding	4.22977	Very Satisfactory	4.30154	Very Satisfactory
6. College of Communication (COC)	4.61321	Outstanding	4.31265	Very Satisfactory	4.37189	Very Satisfactory
7. College of Computer and Information Sciences (CCIS)	4.61700	Outstanding	4.36787	Very Satisfactory	4.40188	Very Satisfactory
8. College of Education (CoEd)	4.83530	Outstanding	4.51614	Outstanding	4.65459	Outstanding
9. College of Engineering (CE)	4.64262	Outstanding	4.46655	Very Satisfactory	4.50291	Outstanding
10. College of Human Kinetics (CHK)	4.37118	Very Satisfactory	4.453827	Very Satisfactory	4.46324	Very Satisfactory
11. College of Law (CL)	4.76808	Outstanding	3.69484	Very Satisfactory	3.98469	Very Satisfactory
12. College of Political Science and Public Administration (CPSPA)	3.10760	Very Satisfactory	3.82669	Very Satisfactory	3.62885	Very Satisfactory
13. College of Science (CS)	4.77788	Outstanding	4.66186	Outstanding	4.66690	Outstanding
14. College of Social Sciences and Development (CSSD)	4.71410	Outstanding	3.84309	Very Satisfactory	4.02657	Very Satisfactory
15. College of Tourism, Hospitality and Transportation Management (CTHTM)	4.77877	Outstanding	4.20041	Very Satisfactory	4.32307	Very Satisfactory
16. Graduate School (GS)	4.81288	Outstanding	4.80424	Outstanding	4.78720	Outstanding
17. Institute of Technology (ITech)	4.76987	Outstanding	3.88485	Very Satisfactory	4.03472	Very Satisfactory
18. Open University System (OUS-ED)	4.94183	Outstanding	4.96468	Outstanding	4.96473	Outstanding
19. Open University System (OUS-ODE)	4.94183	Outstanding	4.92259	Outstanding	4.93945	Outstanding
20. Open University System (OUS-INE)	4.94183	Outstanding	4.96292	Outstanding	4.95985	Outstanding
21. Open University System (OUS-ICPD)	4.94183	Outstanding	4.99147	Outstanding	4.96975	Outstanding
22. National Service Training Program Office (NSTP Office)	4.98549	Outstanding	4.99912	Outstanding	4.99306	Outstanding
23. Ninoy Aquino Library and Learning Resources Center (NALLRC)	4.92294	Outstanding	4.98645	Outstanding	4.96160	Outstanding
24. PASUC Evaluation Committee Office (PECO)	4.60580	Outstanding	4.66222	Outstanding	4.64560	Outstanding



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* For purposes of determining the Adjectival Rating, please use the following rating scale:

Interval	Final Rating	Adjectival Interpretation
4.50001 – 5.00000	5	Outstanding
3.50001 – 4.50000	4	Very Satisfactory
2.50001 – 3.50000	3	Satisfactory
1.50001 – 2.50000	2	Unsatisfactory
0 – 1.50000	1	Poor

Evaluated and Verified by:

Dean GISELA MAY A. ALBANO
College of Computer and Information Science

Dean NICOLAS T. MALLARI
College of Social Sciences and Development

Dir. SANJAY P. CLAUDIO
Quality Assurance Center

Dean REMEDIOS G. ADO
College of Engineering
Open University System-IINE

Dean RAMIR M. CRUZ
Institute of Technology

Dean MARIETTA D. REYES
College of Tourism, Hospitality and
Transportation Management

Dean LILIAN M. LITONJUA
College of Accountancy and Finance

Dean MARIPRES P. PASCUA
College of Human Kinetics

Dean JOCELYN R. LUTAP
College of Architecture and Fine Arts

Dean EVANGELINA S. SERIL
College of Arts and Letters

Dean RAQUEL G. RAMOS
College of Business Administration

Dean DIVINA T. PASUMBAL
College of Communication

Dean GEMY LITO L. FESTIN
College of Law

Dean ANTONIUS C. UMALI
College of Political Science and
Public Administration

Dean LINCOLN A. BAUTISTA
College of Science

Dean. MA. JUNITHESMER D. ROSALES
College of Education
Graduate School

Dir. MARCELA R. FIGURA
Ninoy Aquino Library and Learning
Resources Center 2-2819

Dir. ROVELINA B. JACOLBIA
National Service Training Program Office
Open University System-ICPD

Dr. GUILLERMO O. BERNABE
PASUC Evaluation Committee Office

Dir. Rosemariebeth R. Dizon
Open University System-IODE

Exec. Dir. CARMENCITA L. CASTOLO
Open University System
Vice-Chair, Sector Core Group

Reviewed by:

AVPAA EDELYN M. MARIANO
Chair, Sector Core Group

Recommending Approval:

Dr. MANUEL M. MUHI
Vice President for Academic Affairs

Approved by:




**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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COMPUTER ENGINEERING DEPARTMENT**


 Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
 Sta. Mesa, Manila

OFFICE PERFORMANCE COMMITMENT AND REVIEW (OPCR) FORM

I, Remedios G. Ado, of the College of Engineering of PUP-Main commit to deliver and agree to be rated on the attainment of the following targets in accordance with the indicated measures for the period December 2018.


Dr. Remedios G. Ado
 Dean, College of Engineering
 Date: _____

Reviewed and Recommended for Approval by:	Date:	Approved by:	Date:
Dr. Manuel M. Muhi Vice President for Academic Affairs		Dr. Emanuel C. De Guzman President	

OFFICE FINAL OUTPUT (OFO)	SUCCESS INDICATORS	ACTUAL ACCOMPLISHMENTS	Rating				REMARKS
			Q ¹	E ²	T ³	A ⁴	
Strategic Priority:							
Academic Program Development							
1.1 Outcomes-based syllabus developed for all courses	90% (20/22) of 1 st year courses have corresponding OBE syllabi (E)	100% (22/22) of 1 st year courses have corresponding OBE syllabi (E)		5.00			BSCE: 2 BSCPE: 6 BSEE: 2 BSIE: 2 BSME: 1 BSRE: 1
1.2 Faculty Immersion	At least 5 faculty members underwent industry immersion for at least 3 days within the year (E)	100% (5/5) faculty members underwent industry immersion for at least 3 days within the year		5.00			

Received





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Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
 Sta. Mesa, Manila

Sector : ACADEMIC SECTOR
 Name of Office : COLLEGE OF ENGINEERING

OPCR SCORE CARD
 January to June 2018

Item/s	Score Given by Core Group			Score Given by Validating Team			Remarks
	Q	E	T	Q	E	T	
Strategic Priority							
Total Points	-	-	-	-	-	-	
Core Functions							
Number of Graduates		5.00000			5.00000		
Performance in Licensure		5.00000			5.00000		
Faculty Evals (by supervisor)	5.00000			5.00000			
Faculty Evals (by students)	4.18519			4.18519			
Requests/Queries (simple)			5.00000			5.00000	
Requests/Queries (complex)			5.00000			5.00000	
CSS (number of VS or better)		5.00000			5.00000		
CSS (actual rating)	4.84530			4.84530			
CSS (submission)			4.80000			4.80000	
Total Points	14.03049	15	14.8	14.03049	15	14.8	
Total Points (SP + Core)	14.03049	15	14.8	14.03049	15	14.8	
Total no. of Item Ratings (SP+Core)	3	3	3	3	3	3	
Average Rating (SP+Core)	4.87005			4.87005			
Weighted Ave. (SP+Core) (80%)	3.89604			3.89604			
Support Functions							
Attendance		4.47619			4.47619		
DTR		2.05051			2.05051		
Subject Offerings			5.00000			5.00000	
Class Records		2.13131			2.13131		
Gradesheets		2.25253			2.25253		
Teaching Assignments			5.00000			5.00000	
Clearance		3.95238			3.95238		
QAR			5.00000			5.00000	
Total Points	-	14.86292	15	-	14.8629	15	
Total no. of Item Ratings (Support)	-	5	3	-	5	3	
Average Rating (Support)	3.73287			3.73287			
Weighted Ave. (Support) (20%)	0.74657			0.74657			
Final Rating (Jan. to June)	4.64262			4.64262			

Validated by : Dir. Jackie D. Urrutia/Dir. Racidon P. Bernarte
 Head of Validating Team

Conforme : OIC Remedios G. Ado
 Head of Concerned Unit

AVPAA Edelyn M. Mariano
 Head of Sector Core Group



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PEI.7.2

I.7.The Faculty Development Program is implemented with the following provisions:

I.7.2. scholarships, fellowships, sabbatical leaves, and research grants;

Documents attached:

- LIST OF SCHOLARSHIP AND MOA
- S.O. AND MOA FOR RESEARCH GRANT



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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Scholarship awards/grants received by the faculty involved in the Program

Faculty Grantee/Recipient	Scholarship Awards/Grant	Granting Agency	Level (Int'l, Nat'l, Reg'l, Local)	Inclusive Dates
Dela Cruz, John R.	Fellowship	DOST	National	On-going
Tubola, Orland D.	Fellowship	DOST	National	On-going
Chin, Frank Anthony R.	Study Grants	PUP	Local	On-going
Fernando, Ronald D.	Study Grants	PUP	Local	On-going
Khan, Ma. Leona S.	Study Grants	PUP	Local	On-going
Lorico, Julian L.	Study Grants	PUP	Local	On-going
Madrigalejos, Danilo Jr. C.	Study Grants	PUP	Local	On-going
Mahaguay, Rolito L.	Study Grants	PUP	Local	Graduated
Natividad, Ferdinand O.	Study Grants	PUP	Local	Graduated
	Thesis Grant	PUP	Local	
Rodriguez, Joshua Benjamin B.	Study Grants	PUP	Local	On-going

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Dela Cruz, John R.	Fellowship	DOST	National	On-going
Tubola, Orland D.	Fellowship	DOST	National	On-going
Chin, Frank Anthony R.	Study Grants	PUP	Local	On-going
Fernando, Ronald D.	Study Grants	PUP	Local	On-going
Khan, Ma. Leona S.	Study Grants	PUP	Local	On-going
Lorico, Julian L.	Study Grants	PUP	Local	On-going
Madrigalejos, Danilo Jr. C.	Study Grants	PUP	Local	On-going
Mahaguay, Rolito L.	Study Grants	PUP	Local	Graduated
Natividad, Ferdinand O.	Thesis Grant	PUP	Local	Graduated
Rodriguez, Joshua Benjamin B.	Study Grants	PUP	Local	On-going

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**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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MEMORANDUM OF AGREEMENT

KNOW ALL PERSONS BY THESE PRESENTS:

This Agreement made and entered into by and between:

The **POLYTECHNIC UNIVERSITY OF THE PHILIPPINES**, a state university duly organized and existing under the laws of the Philippines, with official address at Anonas Street, Sta. Mesa, Manila, represented by its President, **DR. EMANUEL C. DE GUZMAN**, and hereinafter referred to as the **UNIVERSITY**;

Witness

- and -

ORLAND DELFINO TUBOLA, of legal age, Filipino, and residing at Block 17 Lot 3 Dreamland, Hagonoy, Taguig city, hereinafter referred to as the **GRANTEE**.

WITNESSETH THAT:

WHEREAS, the **UNIVERSITY**, as part of its mission/vision and in line with the Faculty Development Program of its various Colleges, undertakes the advancement and improvement of the educational profile, and the upgrade of the teaching competence and expertise, as well as the research capabilities, of its faculty members through higher and more advanced education and training, by extending appropriate *scholarship grants*;

Witness

WHEREAS, the **UNIVERSITY** grants several benefits and aid to its qualified faculty members who avail of its Faculty Fellowship, and enroll at the **UNIVERSITY**, if offered, for advanced degree programs, in accordance with the following criteria: (1) there is a need in the College concerned for faculty members with advanced degrees as indicated by its Faculty Development Plan; (2) the field of study of the faculty member falls within the priority areas approved by the College concerned; (3) the type of study program – master's/doctoral; (4) the amount of financial assistance the applicant has received in the past; (5) the faculty member has a regular or temporary item; and (6) the faculty member has a position not higher than an Associate Professor;

Orland Delfino Tubola

WHEREAS, under the **UNIVERSITY**'s approved policy, in cases where the needed program is not offered at the Graduate School of the **UNIVERSITY**, the qualified faculty member may seek admission from other recognized higher education institutions within or outside the Philippines that offer the needed program;

WHEREAS, the **GRANTEE** is a faculty member of the **UNIVERSITY** and is seeking the latter's benevolence under its Faculty Fellowship for Ph.D. in Energy Engineering;

WHEREAS, the Ph.D. in Energy Engineering is not offered at the Graduate School of the **UNIVERSITY**; thus, the **GRANTEE** is applying for admission in the above-mentioned program at the University of the Philippines-Diliman, Quezon City, Philippines;

WHEREAS, the **UNIVERSITY** is granting several benefits and aid to the **GRANTEE** subject to the approved **UNIVERSITY** guidelines on this matter and to the terms and conditions herein

Dr. Emanuel C. de Guzman
Polytechnic University of the Philippines



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NOW THEREFORE, for and in consideration of the foregoing premises, the UNIVERSITY and the GRANTEE hereby mutually agree and stipulate that:

I. REQUIREMENTS

1. The GRANTEE shall accomplish an Application for Faculty Fellowship addressed to the Department Chairperson and the Dean of the College concerned, and duly supported by the following documents:
 - 1.1 Curriculum vitae,
 - 1.2 Transcript of records, and
 - 1.3 Study Program.
2. The Department Chairperson and the Dean of the College concerned shall endorse the Application of the GRANTEE to the UNIVERSITY Vice President for Academic Affairs.
3. The UNIVERSITY Vice President for Academic Affairs shall recommend to the UNIVERSITY President the approval of the GRANTEE's local fellowship.

II. BENEFITS AND AID

Once the fellowship is approved by the President of the UNIVERSITY and after the signing of this Agreement, the UNIVERSITY shall extend to the GRANTEE the following benefits and aid:

1. Salaries and such other benefits of the GRANTEE covered within the period of this Agreement; and
2. Two (2) Academic Faculty Ranks promotion upon graduation, subject to the availability of item position.

III. OBLIGATIONS OF THE GRANTEE

1. The GRANTEE shall complete/obtain from the University of the Philippines- Diliman his Ph.D. in Energy Engineering within the approved period of this fellowship.
2. The GRANTEE shall execute a Suretyship Agreement with his surety, where the latter shall guarantee compliance with the terms and conditions of this Agreement. The absence of the Suretyship Agreement shall annul this grant, and the GRANTEE is obliged to refund to the UNIVERSITY any and all amount, which he may have received because of this grant.
3. The GRANTEE shall submit progress reports and a copy of his grades to the Scholarship Committee through the Vice President for Academic Affairs before the renewal of this Agreement.
4. By reason of this grant, the GRANTEE shall render a return service as a faculty member to the UNIVERSITY for a period of two (2) years for every year of faculty fellowship. Resignation before the end of the required return service shall *ipso facto* obligate the GRANTEE to refund the full amount of the grant, and all the benefits included therein, to the UNIVERSITY.

Witness

Witness

Orlando Delfino Tubola

Dr. Emmanuel C. De Guzman
Polytechnic University of the Philippines



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

IV. GROUNDS FOR TERMINATION / RESCISSION / CANCELLATION

The grounds for the termination/rescission/cancellation of the grant, and all the benefits included therein, are as follows:

1. Violation of the terms and conditions hereof, the University Code, and other pertinent rules and regulations;
2. Failure to enroll in the area of specialization as determined by the Scholarship Committee of the UNIVERSITY;
3. Failure to meet the academic standard set by the above-mentioned Committee;
4. Willful failure to enroll the required academic load;
5. Failure to enroll at any one (1) term, or failure to continue during the term of the GRANTEE's courses without the consent of the UNIVERSITY;
6. Exceeds the time allotted to finish the program;
7. Willful failure to submit in time the approved thesis/dissertation;
8. Registration/transfer to another school/college/university; and
9. Other justifiable grounds which prove the inability of the GRANTEE to complete her degree.


V. DURATION / PERIOD

This Agreement shall be effective for one (1) year from 2018 November to October 2019, subject to the sole right of the UNIVERSITY to renew the same on a yearly basis for a period of three (3) to five (5) years.

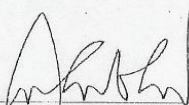
IN WITNESS WHEREOF, the parties set their hands this ___ day of _____, 2019, in _____, Philippines.

POLYTECHNIC UNIVERSITY
OF THE PHILIPPINES

By:



DR. EMANUEL C. DE GUZMAN
President




ORLAND DELFINO TUBOLA
Grantee

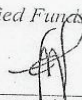


POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

SIGNED IN THE PRESENCE OF:


DR. MANUEL M. MUHI
Vice President for Academic Affairs

Certified Funds Available:


MR. CRISTOPHER CAHAYON
Director, Accounting Office

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
QUEZON CITY) S.S.

BEFORE ME, a Notary Public, for and in the City of Metro Manila, personally appeared the following:

Name	Competent Identification	Date / Place issued
Dr. Emanuel C. De Guzman	PUP # 91064	9/19/12 MANILA
Orland Delfino Tubola	PRC ID 44876	8/22/17 /MANILA

known to me and to me known to be the same persons who executed the foregoing instrument and acknowledged to me that the same is their free act and deed, and of the entities they respectively represent. This MEMORANDUM OF AGREEMENT consists of four (4) pages including the page where this Acknowledgment is written.

WITNESS MY HAND AND SEAL this 08 MAR 2019 day of _____, 2019.

Doc. No.: 460
Page No.: 23
Book No.: 7
Series of 2019.

ATTY. ANGELIO J. BOLIVAR
NOTARY PUBLIC IN QUEZON CITY
Atty Adm. No. Com. No. KP-121 1-12-13 until 12-1-2020
IBP O.R No. 055555 Jan. 2019 & O.R No. 055255 Jan. 2020
PTR O.R No. 7376155 C 1-7-13 / Ral 115. 03932 / TRQ 129-57 1-099
MAGLE No. V-0316296 valid from 04/15/2016 until 04/14/2019 / TASIG CITY
Address: 31-F Harvard St., Cubao Q.C.



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

SURETY AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This AGREEMENT made and entered into by and between:

ORLAND DELFINO TUBOLA, Filipino, of legal age, with residence at Block 17 Lot 3 Dreamland, Hagonoy, Taguig City, and hereinafter referred to as the PRINCIPAL;

-and-

GEOFFREY SALVADOR, Filipino, of legal age, with residence at 89 LI SIENA VILLAS, BALUMBON, CALOOCAN, and hereinafter referred to as the SURETY.

WITNESSETH THAT:

WHEREAS, the PRINCIPAL is the recipient of a several benefits and aid by virtue of the Faculty Fellowship Program of the Polytechnic University of the Philippines (PUP) through of a Memorandum of Agreement made and entered into in the City of Manila on _____, 2019 by and between the PUP and the PRINCIPAL, duly notarized by _____, a Notary Public for and in _____, identified in his Notarial Registry as Doc. No. _____; Page No. _____; Book No. _____; Series of _____; A copy of the said Memorandum of Agreement is hereto attached as Annex "A", and made an integral part of this Agreement;

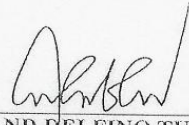
WHEREAS, in case of the PRINCIPAL's non-compliance with his obligations stated in the said Memorandum of Agreement, the PRINCIPAL shall reimburse to PUP the full amount of the benefits and aid received by him by reason of the above-mentioned Memorandum of Agreement; and

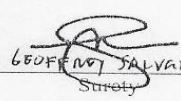
WHEREAS, pursuant to the revised Guidelines for Faculty Fellowships, one of the requirements for the grant is a Surety Agreement.

NOW THEREFORE, for and in consideration of the foregoing premises, the SURETY do hereby obligate and bind himself jointly and severally to reimburse to PUP the full amount of the benefits and aid received by the PRINCIPAL in case of the PRINCIPAL's non-compliance with her obligations stated in the abovementioned Memorandum of Agreement.

The condition of this Surety Agreement is such that if the PRINCIPAL shall fully, promptly and truly comply with all the terms and conditions of the above-mentioned Memorandum of Agreement, then this Surety Agreement shall be, and become, null and void, and of no further force nor effect; otherwise, the same shall be, and remain, in full force and effect, and subject to enforcement in the manner provided by law.

IN WITNESS WHEREOF, we have hereunto set our hands this ____ day of _____, 2017, at the City of Manila, Philippines.


ORLAND DELFINO TUBOLA
Principal


Geoffroy Salvador
Surety



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COMPUTER ENGINEERING DEPARTMENT

S.O. and MOA for Research Grant



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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
Sta. Mesa, Manila

PUP Communication Tracking System
#2015933282
Tracking Number

August 12, 2015

Perillo, Robert
08-27-15 9:0

SPECIAL ORDER
No. 2042, s. 2015

Pursuant to the provisions of Section 64 of P.D. No. 1445, the herein-named Lead Proponents/Disbursing Officers, this University, are hereby authorized to hold a cash advance amounting to **THREE HUNDRED SIXTY FOUR THOUSAND PESOS ONLY (P364,000.00)**, to defray expenses to be incurred in connection with the *Research Proposals, broken down as follows:*

Research Title	Lead Proponent & College	Approved Research Budget		
		MOOE	Honoraria	Total
1. Lung Disease Identification and Classification through Neural Networks	Engr. Orland D. Tubola College of Engineering	P196,000.00	P138,000.00	P334,000.00
2. Correlational Analysis on the PUPCET Scores and High School Academic Performance of Freshmen Students in the College of Social Sciences and Development	Asst. Prof. Norie L. Maniego College of Social Sciences and Development	P11,000.00	P19,000.00	P30,000.00
Total				P364,000.00

By the Authority of the Board of Regents:

EMANUEL C. DE GUZMAN, PhD
President

Copy furnished:

- Office of the President
- Executive Vice President
- Vice President for Administration
- Vice President for Finance
- Vice President for Academic Affairs
- Vice President for Student Services
- Vice President for Research, Extension, Planning and Development
- Vice President for Branches and Campuses
- COA Auditor
- Director, Internal Audit Office
- Director, Accounting Department
- Director, Fund Management Office
- Director, Budget Services Office

Polytechnic University of the Philippines
INTERNAL AUDIT OFFICE

FOR INSPECTION
By: *[Signature]* Date: *8/6/15*



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

CONTRACT FOR GRANTS-IN-AID

KNOW ALL MEN BY THESE PRESENTS:

This Contract for Grants-in-Aid titled "**Lung Disease Identification and Classification through Neural Networks**" entered into this October 2015, 2015 at Sta. Mesa, Philippines by and among:

The **Polytechnic University of the Philippines**, a higher education institution with principal office at Mabini Campus, Sta. Mesa, Metro Manila represented herein by its President, **EMANUEL C. DE GUZMAN** and herein referred to as the "GRANTOR".

and

The **Project Team**, represented herein represented by its team leader **ORLAND D. TUBOLA**, and herein referred to as the "**IMPLEMENTING RESEARCH TEAM**".

WITNESSETH, that:

WHEREAS, no. 2 agenda of 8-point agenda of the Polytechnic University of the Philippines towards an epistemic community aims at strengthening research, publications and creative works;

WHEREAS, pursuant to this agenda the Polytechnic University of the Philippines through the Office of the Vice President for Research, Extension, Planning and Development appropriated funds for institutional researches;

WHEREAS, on the 21st day of July 2015, the University Research Evaluation Committee (UREC), made the initial approval of the research proposal.

WHEREAS, on the 3rd day of August, 2015, PUP through its Executive Committee (EXECOM), the final and executory body, approved the funding of the aforementioned institutional research.

NOW, THEREFORE, for and in consideration of the foregoing and the stipulations herein set forth, the parties hereby agree on the following:

I. DURATION OF THE PROJECT

The **IMPLEMENTING RESEARCH TEAM**, the composition of which is indicated in attached research proposal hereof, shall conduct a study entitled "**Lung Disease Identification and Classification through Neural Networks**" which the Implementing Institution shall satisfactorily complete for a period of **Twelve (12)** months commencing on the date the contract has been signed.

Notwithstanding the project duration stated herein, any renewal or continuation of the project must be approved by PUP thru its President upon the recommendation of the Vice President for Research, Extension, Planning and Development.

In case, it becomes evident to the **IMPLEMENTING RESEARCH TEAM** during the implementation of the study that an extension beyond the termination date set out is necessary to achieve the objectives of this study, the **IMPLEMENTING INSTITUTION** shall immediately inform in writing the **GRANTOR (PUP)** through its President. The President with recommendation from the Office of the Vice President for Research, Extension and Development (**OVPREPD**), shall immediately determine whether an

Page 1 of 7



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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COMPUTER ENGINEERING DEPARTMENT

extension is necessary under the conditions. Provided, however, that in the event that an extension shall be granted, no additional financial grant in excess of the approved project grant stated above shall be awarded to the IMPLEMENTING RESEARCH TEAM due to the extension of time allowed.

II. RATIONALE AND OBJECTIVES OF THE STUDY

Main Objective:

To design and construct a tripartite extension services and community involvement program of the academe, LGUs and the industry for community welfare and development.

OBLIGATION OF THE GRANTOR

1. The GRANTOR shall provide the Implementing Research Team a grant-in-aid in the amount of *Three Hundred Thirty Four Thousand Pesos (P 334,000.00)*. The releases of which shall be based on the approved schedule of expected deliverables and fund releases indicated in the approved Work and Financial Plan (WFP) (Annex C and D)
2. The GRANTOR shall grant the regular faculty members who are not designees of the Implementing Research Team a reduction of twelve (12) units from the 15 units regular teaching load without prejudice to extra load (*Policy on University Research and Development Support, Funding, and Incentives, 42nd BOR Meeting, October 19, 2013*)
3. To facilitate and provide avenue where the research results could effectively and adequately be disseminated; and
4. To own and utilize the results of the study which is possible related to policy decisions or action of PUP subject to Intellectual Property Ownership.

The IMPLEMENTING RESEARCH TEAM hereby understands that the GRANTOR is not liable for any amount in excess of the approved grant. Thus, the IMPLEMENTING RESEARCH TEAM shall shoulder any and all expenses in excess of the Grant for furtherance of the project.

III. OBLIGATION OF THE IMPLEMENTING RESEARCH TEAM

1. Undertake the Project strictly in accordance with the approved Work and Financial Plan (WFP) and Terms of Reference (TOR), a copy of which is hereto attached and made integral part of this Agreement as Annexes "A" "B" "C" and "D" respectively;
2. Ensure that the Project shall be fully completed to the satisfaction of the GRANTOR and in accordance with the approved WFP and TOR;
3. Provide, at its own expense, the counterpart support to fulfill the requirement of the project including but not limited to project staff, their salaries/fees/wages or such other remunerations, office space, research facilities/equipment and other support facilities and requirements during the conduct of the research project;
4. Ensure the strict project implementation in accordance with the approved WFP and TOR;
5. Present the project results in a forum for critiquing;



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6. Submit a full final report in hard and soft/electronic files and surrender to PUP after the termination of the project all raw data, observations and findings;
7. Submit a financial report to the satisfaction of the GRANTOR not later than 60 days from the termination of the Project;
8. Return the total amount released once the project is not completed due to negligence of the Implementing Research Team.

IV. PROJECT COST, SCHEDULE OF FUND RELEASES, AND LIQUIDATION OF FUNDS

1. A total budget allocation in the amount *Three Hundred Thirty Four Thousand Pesos (P 334,000.00)* for the whole project will be given directly to the Implementing Research Team by the GRANTOR for the conduct of the study. The releases shall be based on the approved WFP, LIB, TOR and Schedule of Deliverables and Tranche Releases (Annex C) chargeable against the University Research Fund and subject to the accounting and auditing regulations, pertinent government policies and procedures.

The Implementing Research Team shall not be responsible for the delay of the project implementation if such delay is directly caused by the late releases of the funds.

VII. RESEARCH PERSONNEL

1. The Project Leader and staff shall be composed of the following:

<i>Project Leader:</i>	<i>Orland D. Tubola</i>	<i>Chief, CETR</i>
<i>Asst. Project Leader:</i>	<i>Kristian Carlo B. Victorio</i>	<i>Faculty, EE</i>
<i>Members:</i>	<i>Joshua Rodriguez</i>	<i>Faculty, CpE</i>
	<i>Herman Bascones</i>	<i>Faculty, CpE</i>
	<i>Guillermo Bernabe</i>	<i>Dean, CE</i>

The Project Leader, Assistant Leader and research team members are prohibited from accepting any research project, fellowship, scholarship or training grant or leave his station for any trip abroad for more than one (1) month during the course of the project without securing prior approval and authorization of the Vice President for Research, Extension, Planning and Development. In such case, the IMPLEMENTING RESEARCH TEAM should assign an Officer-in-Charge to lead the project (in the absence of the project leader). If the period of absence is more than three (3) months, a replacement should be made.

2. The GRANTOR is in no way under obligation to grant pension or gratuity to research staff retiring or laid-off in the course of or after completion/termination of the project.
3. The service of the Project Leader and research/project staff shall be discontinued upon termination of the project or the specific work for which they were hired.
4. Research staff authorized under project Line Item Budget who shall be employed with items chargeable against the University Research Fund grant shall be engaged in by the project leader on contract/appointment basis, submitting to the GRANTOR in each case, a copy of the hiring paper together with the job description and qualification requirements.



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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5. Subcontracting of any part of the research shall require prior written approval from the Vice President for Research, Extension, Planning and Development. However, in the event that such sub-contracting is allowed, the IMPLEMENTING RESEARCH TEAM shall be liable or responsible for the outputs of the party subcontracted.

VIII. OPTION TO TERMINATE or FAILURE TO COMPLETE THE PROJECT

If the IMPLEMENTING RESEARCH TEAM is found by the OVPREPD unable, unwilling or otherwise impeded to perform its obligations and responsibilities under this Contract, the Implementing Institution hereby agrees and consents to the termination by the GRANTOR of this grant in prompt and orderly manner so as to minimize further expenditures on the part of the GRANTOR.

Should the IMPLEMENTING RESEARCH TEAM opt to terminate the project or a portion of the work as stated in the approved WFP within the project period or any extension granted thereof, the IMPLEMENTING RESEARCH TEAM agrees to reduce a portion of the Contract Price up to fifteen percent (15%) corresponding to the particular incomplete work due per the approved work schedule.

Failure by the IMPLEMENTING RESEARCH TEAM to satisfactorily complete the study within the period stated herein or any extension granted shall mean forfeiture or discontinuance of the Grant. The fund spent for the project will be returned to the university subject to salary deduction among members of the Implementing Research Team. The remaining balance of the study shall revert automatically to University Research Fund.

IX. OWNERSHIP OF RESEARCH OUTPUTS

The IMPLEMENTING RESEARCH TEAM and GRANTOR hereby agree and understand that intellectual property rights, ownership and enjoyment thereof arising from this study shall be governed by existing and future policies of the GRANTOR on Intellectual Property Rights such as but not limited to the following:

1. The RESEARCH outputs developed from the study shall be jointly owned by the GRANTOR and the IMPLEMENTING RESEARCH TEAM. Any publication arising from the activities undertaken by virtue of and pursuant to this Contract shall clearly establish and identify the Parties as the source of the output.
2. All reports arising from activities undertaken by virtue of and pursuant to this Contract shall be made in the name of the Parties. The names of the principal authors, researchers and/or Project Leaders shall be identified, recognized and included in the report.
3. The GRANTOR shall have the right to freely use all data and findings by virtue of and pursuant to this Contract for any of the purposes within its legal mandate. However, the IMPLEMENTING RESEARCH TEAM shall in writing request permission from the GRANTOR on the intent to use any of the data or information contained in the report and the purposes thereof.
4. Copyright, royalties and other economic rights arising from work produced or developed from the Project shall be owned by the GRANTOR and the IMPLEMENTING RESEARCH TEAM in accordance with the following proportion:

GRANTOR	-	60%
IMPLEMENTING RESEARCH TEAM	-	40%



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

It is the obligation of the IMPLEMENTING RESEARCH TEAM to obtain or cause the assignment of the copyright and such other economic rights over the work under this Project in favor of the GRANTOR, copy furnished the GRANTOR, and said documents shall form part of the Terminal Report of the said IMPLEMENTING INSTITUTION and without which no acceptance of the said project output shall be issued by the GRANTOR.

X. ASSIGNMENT OF RIGHTS

The IMPLEMENTING RESEARCH TEAM shall not assign, sub-let or sub-contract any portion of the project covered by this Contract except upon prior written approval of the GRANTOR. Any such assignment, sub-lease or sub-contracting shall be governed by Section VII, item no. 6. Violation of this condition shall be a ground for the immediate termination of this Contract by the Commission.

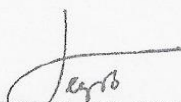
XI. AMENDMENTS

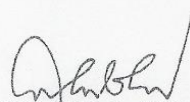
The parties to this Contract, may by mutual consent and for as long as the same is within the purview of law, accordingly reverse, modify, amend, and delete any word, phrase, sentence or article in this Contract.

XII. EFFECTIVITY

This Contract shall take effect upon the signing hereof by both parties and upon receipt of Notice to Proceed by the Implementing Institution and shall remain in force until the completion of the work required of the partner as indicated in the WFP. The parties hereto, may upon mutual consent, amend or modify this Contract by or through an Addendum or Supplementary Contract signed by all parties shall form an integral part hereof.

IN WITNESS WHEREOF, the parties hereto have signed this Contract this _____ day of _____ at Sta. Mesa, Manila.



EMANUEL C. DE GUZMAN
President, Polytechnic University
of the Philippines



ORLAND D. TUBOLA
Project Leader
Chief, CETR




POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

Signed in the presence of:


MANUEL M. MUHI
Vice President for Research,
Extension, Planning and Development
Polytechnic Univ. of the Philippines


KRISTIAN CARLO B. VICTORIO
Faculty, CS


RACIDON P. BERNARTE
Director, Research and Extension
Management Department





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COMPUTER ENGINEERING DEPARTMENT

ACKNOWLEDGMENT

Republic of the Philippines)
Quezon City) S.S.

Before me, a Notary Public for and in _____ on this _____
day of _____ personally appeared before me:

Name	Comm. Res. Cert. No.	Place/Date Issued
EMANUEL C. DE GUZMAN	<u>08976335</u>	<u>Manila 1-23-14</u>
MANUEL M. MUHI	<u>FC 1824731</u>	<u>Manila 8-7-19</u>
RACIDON P. BERNARTE	<u>327 0819</u>	<u>Manila / 1/26/15</u>
ORLAND D. TUBOLA	<u>03302745</u>	<u>Manila / 10/20/15</u>
KRISTIAN CARLO B. VICTORIO	_____	_____
GUILLERMO O. BERNABE	_____	_____

Known to me and to be known the same persons who executed the foregoing instrument consisting of seven (7) pages including this page on which the acknowledgement is written, has been signed on the right hand margin of each and every page sealed with my notary seal.

IN WITNESS HEREOF, I have hereunto set my hand and seal on the day, year and place above written.

NOTARY PUBLIC

Doc. No. _____
Page No. _____
Book No. _____
Series No. _____

Page 7 of 7



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

P.E. I 7.3

I.7. The Faculty Development Program is implemented with the following provisions:

I.7.3. financial support for active membership in professional organizations;

Documents attached:

- CERTIFICATES



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING

February 14, 2019

DR. EMANUEL C. DE GUZMAN
President
This University

Thru:

DR. MANUEL M. MUHI
EVP & VPAA for Academic Affairs

MS. MARISA J. LEGASPI
Vice President for Finance


Dear Sir:

This is to inform your good office that PUP is now an active member of the Philippine Association of Engineering Schools Inc. (PAES).

In this connection, I am submitting the copy of the original receipt for our membership full payment amounting to Fourteen Thousand Pesos with OR No. 0739 dated January 24, 2019.

The membership payment was made possible through the PUP Fund with Check No 0000276418 dated December 28, 2018 amounting to Fourteen Thousand Pesos, Landbank G. Araneta Branch.

Respectfully yours,


DR. REMEDIOS G. ADO
OIC-Dean, College of Engineering

NDC Compound Anonas Street, Sta. Mesa, Manila website: www.pup.edu.ph

“THE COUNTRY’S 1ST POLYTECHNICU”



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COMPUTER ENGINEERING DEPARTMENT



INSTITUTE OF COMPUTER ENGINEERS OF THE PHILIPPINES

Converging Professionals for Excellence

SEC Reg. NO. 2011-20675

Certificate of Membership

This is to certify that

REMEDIOS G. ADO

is a regular member in good standing and is entitled to all of the rights
and privileges of the Institute of Computer Engineers of the Philippines (ICPEP).

*** VALID UNTIL DECEMBER 2020 ***



NOEL B. LINSANGAN

National President





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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



INSTITUTE OF COMPUTER ENGINEERS OF THE PHILIPPINES
Converging Professionals for Excellence
SEC Reg. NO. 2011-20675

Certificate of Membership

This is to certify that

NORMAN DAVID F. DELOS REYES

is a regular member in good standing and is entitled to all of the rights
and privileges of the Institute of Computer Engineers of the Philippines (ICPEP).

*** VALID UNTIL DECEMBER 2020 ***




NOEL B. LINSANGAN
National President





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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



INSTITUTE OF COMPUTER ENGINEERS OF THE PHILIPPINES
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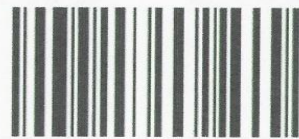
Certificate of Membership


This is to certify that

JULIAN L. LORICO JR.

is a regular member in good standing and is entitled to all of the rights
and privileges of the Institute of Computer Engineers of the Philippines (ICPEP).

*** VALID UNTIL DECEMBER 2018 ***




NOEL B. LINSANGAN
National President





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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COMPUTER ENGINEERING DEPARTMENT



INSTITUTE OF COMPUTER ENGINEERS OF THE PHILIPPINES

Converging Professionals for Excellence

SEC Reg. NO. 2011-20675

Certificate of Membership


This is to certify that

FERDINAND O. NATIVIDAD

is an associate member in good standing and is entitled to all of the rights
and privileges of the Institute of Computer Engineers of the Philippines (ICPEP).

*** VALID UNTIL DECEMBER 2019 ***




NOEL B. LINSANGAN
National President





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



INSTITUTE OF COMPUTER ENGINEERS OF THE PHILIPPINES
Converging Professionals for Excellence
SEC Reg. NO. 2011-20675

Certificate of Membership


This is to certify that

FLORINDA H. OQUINDO

is a regular member in good standing and is entitled to all of the rights
and privileges of the Institute of Computer Engineers of the Philippines (ICPEP).

*** VALID UNTIL DECEMBER 2020 ***




NOEL B. LINSANGAN
National President





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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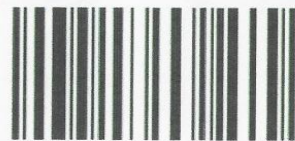
Certificate of Membership


This is to certify that

LUTZER U. REYES

is a regular member in good standing and is entitled to all of the rights
and privileges of the Institute of Computer Engineers of the Philippines (ICPEP).

*** VALID UNTIL DECEMBER 2017 ***




NOEL B. LINSANGAN
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SEC Reg. NO. 2011-20675

Certificate of Membership


This is to certify that

CHRISTOPHER M. SAWI

is a regular member in good standing and is entitled to all of the rights
and privileges of the Institute of Computer Engineers of the Philippines (ICPEP).

*** VALID UNTIL DECEMBER 2019 ***




NOEL B. LINSANGAN
National President






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COMPUTER ENGINEERING DEPARTMENT



CERTIFICATE OF MEMBERSHIP

This is to certify that **DR. ARVIN R. DE LA CRUZ** is a *bona fide* member of the Philippine Computer Society.

Individual membership is valid from January 2016 to December 2016 and is, therefore, entitled to all corresponding benefits and privileges throughout the duration of his membership.


BGEN DANTE Q. COSTES (Ret)
President, FY 2015-2016

MIDN: 2015-1010734
Not valid without PCS dry seal.
Not valid if with erasures/alterations.




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PSITE

Philippine Society of Information Technology Educators Foundation, Inc.
UP Information Technology Training Center (UP ITTC), 2/F Vidal A. Tan Hall, Quirino Ave. cor. Velasquez St.
University of the Philippines, Diliman, Quezon City
www.psite.ph

CERTIFICATE
of
INDIVIDUAL MEMBERSHIP

This is to certify that

ARVIN R. DE LA CRUZ

is a bonafide member in good standing of the Philippine Society of Information Technology Educators Foundation, Inc., for the Academic Year 2014 – 2015.


JESSIE A. MONTALBO, Ph.D.
President, PSITE IV-A



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COMPUTER ENGINEERING DEPARTMENT



NEMPRED

Network of Evaluators and Multidisciplinary Professionals for Research, Extension and Development, Incorporated

This

Certificate of Membership

is given to

Arvin R. De La Cruz

For being a Lifetime Member of NEMPRED, a duly SEC registered non-profit corporation. It is a network and organization of multidisciplinary professionals collaborating towards innovations, initiatives and intervention to foster a vibrant culture of research, extension and sustainable development in the academic community and in other institution and to develop an empowered group of professionals in different fields of specialization.

Sylvia M. Mariano

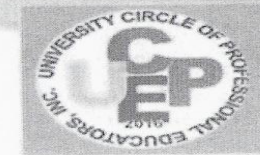
Director, Membership Division



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COMPUTER ENGINEERING DEPARTMENT



**UNIVERSITY CIRCLE
OF PROFESSIONAL EDUCATORS
(UCPE), INC.**

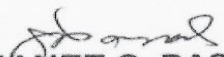


CERTIFICATE of MEMBERSHIP

This is to certify that

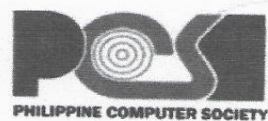
DR. ARVIN DE LA CRUZ

is an Active Member
of the UNIVERSITY CIRCLE OF PROFESSIONAL EDUCATORS (UCPE), INC.
FOR THE YEAR 2019,
A PROFESSIONAL ORGANIZATION THAT ADHERES TO THE HALLMARKS
OF POSITIVISM, COMMITMENT AND PROFESSIONALISM.


Dr. JANET C. PASCUAL
President



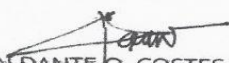
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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BGEN DANTE Q. COSTES (Ret)
President, FY 2015-2016

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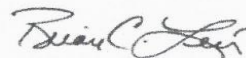
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



This
Certificate of Individual Membership
is awarded to

ARVIN R. DE LA CRUZ

on this 14th of April 2016


Brian Lewis, ISTE CEO

Connected learning.
Connected world.™



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CERTIFICATE
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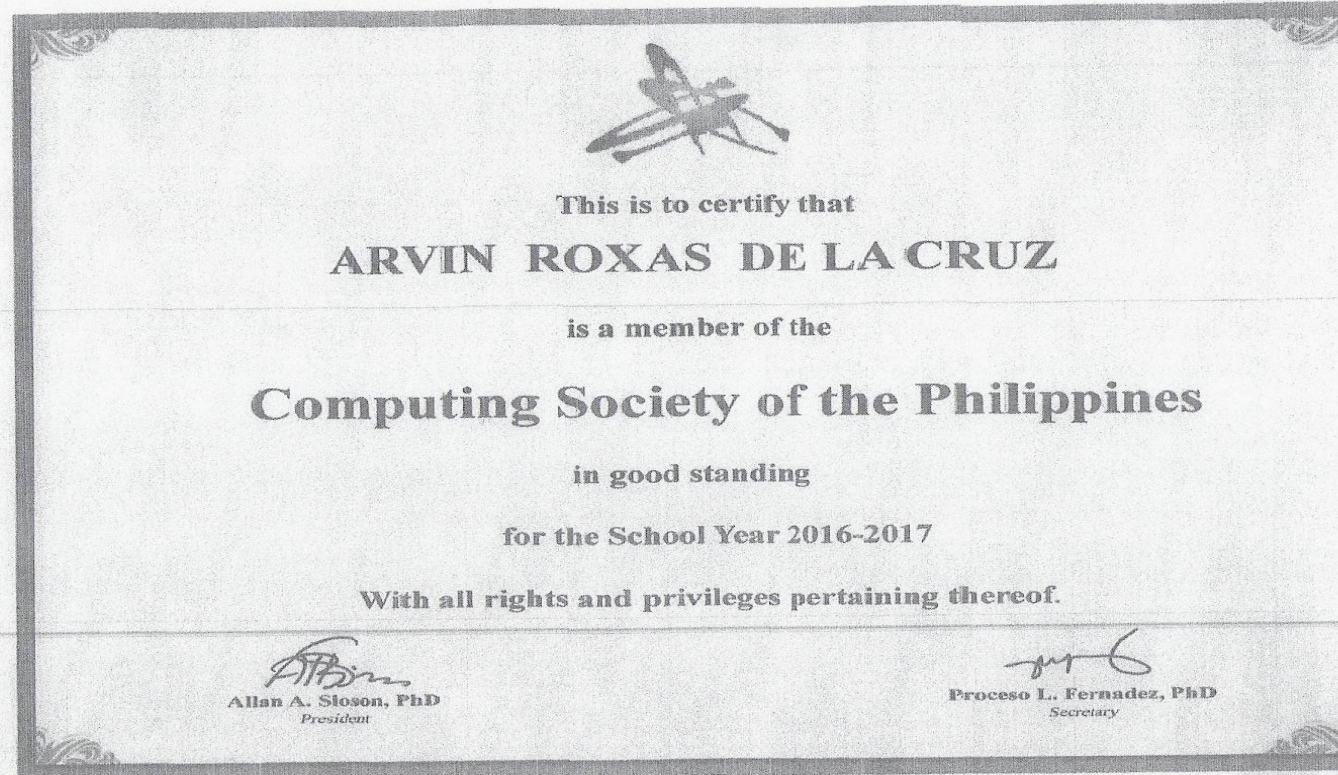
ARVIN R. DE LA CRUZ

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JESSIE A. MONTALBO, Ph.D.
President, PSITE IV-A



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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PEI.7.4

I.7.The Faculty Development Program is implemented with the following provisions:

I.7.4. deloading to finish the faculty's thesis/dissertation;

Documents attached:

- CERTIFICATE
- FACULTY MANUAL



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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COMPUTER ENGINEERING DEPARTMENT



Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
OFFICE OF THE PRESIDENT
OFFICE OF THE UNIVERSITY BOARD SECRETARY

CERTIFICATION

This is to certify that during the 151st Regular Meeting of the Board of Regents held on December 23, 2015, the Board *approved* the *Memorandum of Agreement between Polytechnic University of the Philippines and Engr. Ferdinand O. Natividad* for financial grant for thesis completion amounting to Php30,000.00 as per Board Resolution No. 1278, Series of 2015.

WITNESS MY HAND and dry seal this 28th day of December, 2015, Manila, Philippines.

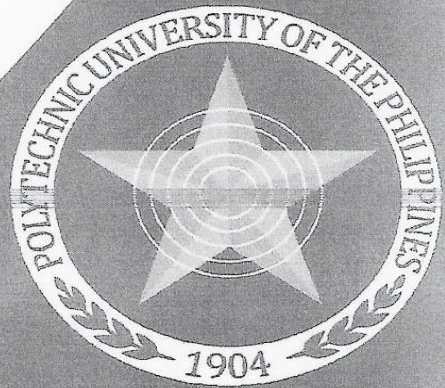
Atty. *JOANNA MARIE A. LIAO*
Acting Board Secretary

3rd South Wing PUP A. Mabini Campus Anonas Street, Sta. Mesa, Manila Phone: (Direct Line) 713-6803
(Trunk Line) 335-1787(Local)396 ; website: www.pup.edu.ph e-mail legal@pup.edu.ph

“THE COUNTRY'S 1ST POLYTECHNICU”



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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FACULTY MANUAL

Prepared by
PUP Department of Research, Planning & Development



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

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- 8.7.9 No member of the faculty may invite any person who is not officially connected with the University to give lecture or talk on any subject before his class or any group of students without permission from the Dean/Director or the Vice President for Academic Affairs or the President.
- 8.7.10 Violation of the above restrictions shall be punishable by reprimand, suspension or dismissal from the service.

FACULTY WELFARE

- 9.1 The University through the Office of Health Services shall provide dental and medical services to faculty members.
 - 9.1.1 An annual medical and dental check-up shall be required of every faculty member.
 - 9.1.2 Only those who have complied with the medical-dental check-up at the end of each school year shall be given clearance which is a requirement for the release of the last salary for the semester.
 - 9.1.3 Those who are found to be physically and mentally unfit for classroom work shall be advised accordingly.
- 9.2 Medical Benefits

Regular faculty members are covered by the Philippine Medicare Act.
- 9.3 Life Insurance

All faculty members, regular, temporary or part-time are insurable with the Government Service Insurance System. There are three kinds of life insurance coverage: compulsory membership insurance for regular and permanent appointments, optional membership insurance for those who are not compulsorily insurable and unlimited insurance for those who are already insured under either compulsory or optional membership.
- 9.4 Compensation and Allowance for Disability

Faculty members and their dependents are given tax-exempt income benefit and medical and or related benefits in the event of work-connected injury or death according to Government Service Insurance System laws and regulations. Benefits for non-work connected injury are also provided by the System.

10. GRANTS

Scholarship, fellowship and grants-in-aid for faculty members shall be awarded in accordance with the rules and regulations prescribed by the Board of Regents.



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
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- 10.1 Study grants may be granted on the basis of the greatest need for, and usefulness to the University. The appointment of the grantee(s) shall be made by the President of the University, and shall be limited to the most able, promising and deserving in the line of study selected and on the basis of University requirements, as well as availability of funds.
- 10.2 Travel, observation and research grants may be granted on the basis of greatest need, following University rules and requirements and where funds are available.
- 10.3 Any faculty who is admitted to the Graduate School shall, in addition to the authorized discount from tuition fee, be exempt from the payment of medical and dental fees.
- 10.4 The children of the regular faculty members of the University who have fulfilled University requirements, shall be entitled to a 50 percent discount on tuition fees in the University Laboratory High School or any of its colleges/institutes. However miscellaneous fees shall be paid in full.

11. ACADEMIC FREEDOM

- 11.1 Members of the teaching staff shall enjoy academic freedom; Provided, however, that no faculty member in the University shall directly or indirectly inculcate sectarian tenets and/or political partisanship in any of the teachings under penalty of dismissal by the Board of Regents.
- 11.2 Academic freedom is the right of the teacher to teach his subject of specialization according to his best lights; to hold, in other subjects, such ideas as he believes sincerely to be right; and to express his opinions on public questions in a manner that shall not interfere with his duties as a member of the faculty, or that shall not be adverse to his loyalty to the College or University that employs him. Within this specific framework which should be interpreted broadly, the following principles are hereby declared:
 - 11.2.1 The University shall not impose any limitation upon the teacher's freedom in the exposition of his own subject in the classroom or in speeches and publications;
 - 11.2.2 The University shall not place any restraint upon the teacher's freedom in the choice of subjects for research and investigation undertaken on his own initiative;
 - 11.2.3 The University shall recognize that the teacher in speaking or writing outside of the institution on subjects beyond the scope of his field of study, is entitled to the same responsibility as attached to all other citizens, but in added measure;
 - 11.2.4 The University shall, as a center of higher learning, stimulate and encourage the pursuit of truth, in every way possible;



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PE 1.7.5

I.7.The Faculty Development Program is implemented with the following provisions:

I.7.5. attendance in continuing professional education (CPE) programs such as seminars, workshops and conferences or some in-service training courses;

Documents attached:

- FACULTY ATTENDANCE IN CONTINUING PROFESSIONAL EDUCATION (CPE) PROGRAMS SUCH AS SEMINARS, WORKSHOPS AND CONFERENCES OR SOME IN-SERVICE TRAINING COURSE
- CERTIFICATE IN SEMINARS, WORKSHOPS AND CONFERENCES OR SOME IN-SERVICE TRAINING COURSE



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Faculty attendance in continuing professional education (CPE) programs such as seminars, workshops and conferences or some in-service training courses



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Attendance in Relevant/Job-related Trainings, Seminars, Conferences, Workshops, Conventions, etc.


Name of Faculty Member (Surname, First Name, M.I.)	Title/Theme/Topic	Check (✓) if		Sponsor of Training, Seminar/s, etc.	Level Please check (✓) if				Venue	Inclusive Date
		Training	Seminar/ Conference/ workshop/ convention etc.		International	National	Regional	Local		
Tenerife, Pedrito Jr. M.	Pathways to Refereed Journal Publication in the Field of Science, Technology, Engineering, and Mathematics (STEM)	✓		PUP Research Management Office				✓	PUP ICTC Laboratory Phase 1, Ninoy Aquino Library and Learning Resource Center	10/16/2019 to 10-18/2019
Tenerife, Pedrito Jr., M.	Philippine Quality Award Assessors Preparatory Course		✓	Department of Trade and Industry		✓			Philippine Trade Training Center	6/24/2019 to 6/28/2019
De La Cruz, Arvin R.	Philippine Quality Award Assessors Calibration Workshop		✓	Department of Trade and Industry		✓			Breeze Hall, ACE Hotel & Suites, Pasig City	5/28/2019 to 5/30/2019
Ado, Remedios G. Fernando, Ronald B. Reyes, Lutzer U.	CCNA1 Routing and Switching : Introduction to Networks	✓		CISCO Networking Academy		✓			Mapua University	4/22/2019 to 4/26/2019
De La Cruz, Arvin R.	3 rd UCPE International Conference		✓	University Circle of Professional Educators, Inc.	✓				CDC Hotel, Tagaytay City	4/22/2019 to 4/24/2019
Cansino, Julius S. Natividad, Ferdinand O. Tenerife, Pedrito Jr., M.	CCNA R&S: Routing and Switching Essential Training	✓		CISCO Networking Academy		✓			De La Salle University - Dasmariñas	4/1/2019 to 4/5/2019
Ado, Remedios G. Cansino, Julius S. Pajabera, Orlando V. Mahaguay, Rolito L. Tenerife, Pedrito Jr., M.	CHED Policies, Standards, & Programs on Quality Assurance		✓	PUP Quality Assurance Center				✓	Bulwagang Bonifacio, Ninoy Aquino Library and Learning Resource Center	03/18/2019
Mahaguay, Rolito L. Tenerife, Pedrito Jr., M.	HIV/AIDS 101: Stop, Look, Listen		✓	PUP GAD Focal Point System				✓	Bulwagang Bonifacio, Ninoy Aquino Library and Learning Resource Center	03/15/2019
Ado, Remedios G. Mahaguay, Rolito L. Tenerife, Pedrito Jr., M.	Transforming Lives and Societies Through Exemplary Alternative Learning		✓	Open University System				✓	Bulwagang Balagtas, Ninoy Aquino Library and Learning Resource Center	03/02/2019
Ado, Remedios G. Mahaguay, Rolito L.	Time and Workload Management Skills		✓	Open University System				✓	Ninoy Aquino Library and Learning Resource Center Multimedia Room	02/14/2019



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Reyes, Lutzer U. Tenerife, Pedrito Jr., M.	Data Brew 2: Data Science Kapihan		✓	Advanced Science and Technology Institute	✓	SGV Development Center, STI Holdings Building, Ayala Ave., Legazpi Village, Makati City	02/14/2019
Cansino, Julius S. Dela Cruz, John R. Reyes, Lutzer U. Velasco, Antonio Y.	CCNA Cybersecurity Operations Instructors Training	✓		CISCO Networking Academy	✓	Mapua University	2/4/2019 to 2/9/2019
Mahaguay, Rolito L. Tenerife, Pedrito Jr., M.	iTamKalinangan: Web Frameworks Seminar and Workshop		✓	FEU Institute of Technology	✓	General Access Laboratory, FEU Institute of Technology	02/07/2019
Ado, Remedios G. Cansino, Julius S. Natividad, Ferdinand O. Pajabera, Orlando V. Velasco, Antonio Y.	Cisco NetAcad-PH Instructor's Conference 2019		✓	CISCO Networking Academy	✓	Azalea Residences, Baguio City	1/15/2019 to 1/17/2019
De La Cruz, Arvin R.	Agile Methodologies for Software Development		✓	College of Computer and Information Sciences and College of Engineering		College of Engineering Audio Visual Room	1/7/2019

Prepared by:


Pedrito M. Tenerife Jr.



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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Attendance in Relevant/Job-related Trainings, Seminars, Conferences, Workshops, Conventions, etc.

Name of Faculty Member (Surname, First Name, M.I.)	Title/Theme/Topic	Check (✓) if		Sponsor of Training, Seminar/s, etc.	Level Please check (✓) if				Venue	Inclusive Date
		Training	Seminar/ Conference/ workshop/ convention etc.		International	National	Regional	Local		
Ado, Remedios G. Mahaguay, Rolito L. Tenerife Jr., Pedrito M.	2018 Assessment and 2019 Planning		✓	PUP Open University System				✓	Ninoy Aquino Library and Learning Resource Center Multimedia	12/12/2018 to 12/14/2018
Cansino, Julius S. Mahaguay, Rolito L. Natividad, Ferdinand O. Pajabera, Orlando V. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	6 th ICpEP National Convention "Enhancing Computer Engineers' Capability Towards 4 th Industrial Revolution and Technology Business Incubation"		✓	Institute of Computer Engineers of the Philippines (ICpEP)		✓			Hotel Supreme Convention Plaza, Baguio City	11/26/2018 to 11/29/2018
Dela Cruz, John R.	1 st National Railway Engineering Conference		✓	PUP in collaboration with Department of Transportation and Philippine Railway Engineers Association		✓			Bulwagang Balagtas, Ninoy Aquino Library and Learning Resource Center	11/21/2018 to 11/22/2018
Artificio, Edcel B.	17 th Leadership and Management of Change for Development Managers: The Bridging Leadership approach	✓		Asian Institute of Management Stephen Zuellig Graduate School of Development Management	✓				Asian Institute of Management Makati City	11/5/201- to 11/9/2018
Ado, Remedios G. Mahaguay, Rolito L. Tenerife Jr., Pedrito M.	Divergent: OUr Differences Makes Us Stronger		✓	PUP Open University System				✓	Ninoy Aquino Library and Learning Resource Center Multimedia	10/24/2018
Mahaguay, Rolito L. Tenerife, Pedrito Jr. M.	Educational Visit and Meeting with the Officials and Staff		✓	Ho Chi Minh City Open University	✓				Ho Chi Minh City Open University	10/10/2018
Artificio, Edcel B.	API-JEC International Conference on Educational Frontiers 2018		✓	Ateneo Salt Institute		✓			Ateneo de Manila University	10/3/2018 to 10/5/2018



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Mahaguay, Rolito L. Tenerife Jr., Pedrito M.	2 nd International Conference on Innovative Research in Science, Technology and Management (ICIRSTM-18)		✓	International Institute of Research and Journals (IIRAJ) and Institute of Research and Publication (IRP)	✓				National University of Singapore	9/29/2018 to 9/30/2018
De La Cruz, Arvin R.	Writing a Test/Questionnaire, Rubrics and Assessment		✓	PUP Quality Assurance Center				✓	ICTO Laboratory Phase 2, Ninoy Aquino Library and Learning Resource Center	9/25/2018
Ado, Remedios G. Cansino, Julius S.	Table of Specifications	✓		Quality Assurance Center				✓	Quality Assurance Center Conference Room, Ninoy Aquino Library and Learning Resource Center	9/12/2018
De La Cruz, Arvin R. Tenerife Jr., Pedrito M.	Training-Workshop For ETEEAP and NTSP Assessors		✓	PUP Open University System				✓	ICTO Laboratory Phase 2 Ninoy Aquino Library and Learning Resource Center	8/29/2018
De La Cruz, Arvin R.	Methods of Engineering Research Orientation & Seminar		✓	PUP Computer Engineering Department				✓	Gabriela Silang Hall	8/24/2018
Ado, Remedios G. Cansino, Julius S. Tenerife Jr., Pedrito M.	2018 ICpEP NCR First Consultative Assembly		✓	Institute of Computer Engineers of the Philippines (ICpEP) - NCR			✓		FEU Institute of Technology	7/27/2018
Mahaguay, Rolito L.	5S Awareness Orientation		✓	Office of the VP for Research, Extension and Development				✓	PUP BPO Plenary Hall	7/16/2018
Ado, Remedios G. Cansino, Julius S. Mahaguay, Rolito L. Reyes, Lutzer U. Tenerife Jr., Pedrito M.	iTamKalinangan: Seminar & Workshop on FPGA Board and VHDL Programming		✓	FEU Institute of Technology Computer Engineering Department			✓		FEU Institute of Technology	6/27/2018
Ado, Remedios G. Cansino, Julius S. Mahaguay, Rolito L. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	Starting Strong: The Head, Heart, Hands, and Habits of an Achiever!"		✓	Office of the Vice President for Academic Affairs				✓	PUP Hasmin Hostel	6/22/2018 to 6/23/2018
Cansino, Julius S. De La Cruz, Arvin R. Tenerife Jr., Pedrito M.	MMIEERDC Proposal Writeshop and Packaging		✓	Metropolitan Manila Industry, Energy and Emerging Technology Research and Development Consortium (MMIEERDC) and Department of Science and Technology			✓		Polytechnic University of the Philippines	5/21/2018 to 5/22/2018



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Dela Cruz, John R.	6 th Technical Seminar		✓		✓		Seminar Room A & B, Building 1, Technological Institute of the Philippines	5/5/2018
Tenerife Jr., Pedrito M.	MoodleMoot Philippines 2018		✓	Nephila Web Technology Inc.	✓		Manila Hotel	4/26/2018 to 4/27/2018
Cansino, Julius S.	2018 MMIERDC Strategic Planning		✓	Metropolitan Manila Industry, Energy and Emerging Technology Research and Development Consortium (MMIEERDC) and Department of Science and Technology	✓		Polytechnic University of the Philippines	4/17/2018 to 4/18/2018
Ado, Remedios G. Tenerife Jr., Pedrito M.	Distance Educator's Role in the Global Learning Community"		✓	PUP Open University		✓	Bulwagang Balagtas, Ninoy Aquino Library and Learning Resource Center	3/18/2018
Mahaguay, Rolito L.	Research Publications and Reviewing in High-Ranking International Journals and Proceedings for Engineering Professionals and Students: The Australian and Philippine Context		✓	PUP OVPA and College of Engineering		✓	Bulwagang Andres Bonifacio, Ninoy Aquino Library and Learning Resource Center	2/17/2018
Ado, Remedios G. Cansino, Julius S. De La Cruz, Arvin R. Lorico, Julian Jr. L. Mahaguay, Rolito L. Natividad, Ferdinand O. Pajabera, Orlando V. Rodriguez, Joshua Benjamin B. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	CCNA Routing & Switching Track Module 2: IP Routing	✓		SMART Communications, Inc.	✓		PUP College of Engineering and Architecture	2/5/2018 to 2/7/2018



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COMPUTER ENGINEERING DEPARTMENT**

Ado, Remedios G. Cansino, Julius S. De La Cruz, Arvin R Lorico, Julian Jr. L. Mahaguay, Rolito L. Natividad, Ferdinand O. Natividad, Mark Kervin Z. Pajabera, Orlando V. Reyes, Lutzer U. Rodriguez, Joshua Benjamin B. Sawi, Christopher M. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	6 th National Computer Research & Engineering Symposium "Immersive Technology Knowledge Into Your Perspective"	✓	PUP Computer Engineering Department	✓	Bulwagang Balagtas, Ninoy Aquino Library and Learning Resource Center	1/25/2018 to 1/27/2018
Ado, Remedios G. Cansino, Julius S. De La Cruz, Arvin R Lorico, Julian Jr. L. Mahaguay, Rolito L. Natividad, Ferdinand O. Natividad, Mark Kervin Z. Pajabera, Orlando V. Reyes, Lutzer U. Rodriguez, Joshua Benjamin B. Sawi, Christopher M. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	CCNA Routing & Switching Track Module 1: IP Fundamentals	✓	SMART Communications, Inc.	✓	PUP College of Engineering and Architecture	1/17/2018 to 1/19/2018

Prepared by:


Pedrito M. Tenerife Jr.



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COMPUTER ENGINEERING DEPARTMENT

Attendance in Relevant/Job-related Trainings, Seminars, Conferences, Workshops, Conventions, etc.

Name of Faculty Member (Surname, First Name, M.I.)	Title/Theme/Topic	Check (✓) if		Sponsor of Training, Seminar/s, etc.	Level Please check (✓) if				Venue	Inclusive Date
		Training	Seminar/ Conference/ workshop/ convention etc.		International	National	Regional	Local		
Dela Cruz, John R.	The 9 th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management		✓	IEEE HNICEM 2017					Hotel Jen Manila, Pasay City	11/29/2017 to 12/1/2017
Ado, Remedios G. Cansino, Julius S. De La Cruz, Arvin R. Lorico, Julian Jr. L. Mahaguay, Rolito L. Natividad, Ferdinand O. Pajabera, Orlando V. Reyes, Lutzer U. Rodriguez, Joshua Benjamin B. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	College of Engineering Research Capability Training Seminar	✓		OVPRED & College of Engineering				✓	PUP College of Engineering and Architecture	11/25/2017
Dela Cruz, John R.	IECEP 67 th AGM & National Convention		✓	Institute of Electronics Engineers of the Philippines, Inc.		✓			Subic Bay freeport Zone	11/23/2017 to 11/25/2017
Cansino, Julius S. Natividad, Ferdinand O. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	ICpEP National Convention 2017		✓	Institute of Computer Engineers of the Philippines (ICpEP)		✓			Casablanca Hotel Convention Center Legazpi City, Albay	11/21/2017 to 11/24/2017
Natividad, Mark Kerwin Z.	8 th Annual General Membership Meeting & Convention		✓	Institute of Electronics Engineers of the Philippines, Quezon City chapter			✓		The Elements @ Eton Centris, Quezon City	11/17/2017 to 11/18/2017
Artificio, Edcel B.	Data, Connectivity, and Intelligence: Data Science Track of the Data Science Course under Coursera	✓		Department of Science and Technology PCIEERD and MOOCS.PH		✓			Heritage Hotel Manila	10/9/2017 to 3/29/2018



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Tenerife Jr., Pedrito M.	Training-Workshop on Outcomes-Based Quality Assurance	✓		The Accrediting Agency of Chartered Colleges and Universities in the Philippines, Inc.	✓		Alumni Center, Tarlac State University-Lucinda Campus Tarlac City	10/9/2017 to 10/11/2017
Mahaguay, Rolito L. Tenerife Jr., Pedrito M.	2017 ICpEP NCR National Convention		✓	ICPpEP NCR	✓		Technological Institute of the Philippines, Quezon City	10/6/2017
De La Cruz, Arvin R.	Let's Code		✓	Apple Authorized Training Provider Power Mac Center	✓		2L Cedar Executive Bldg.1, 1006 Arnaiz Avenue, Makati City	9/22/2017
Tenerife Jr., Pedrito M.	2017 PUP Open University System Graduate Research Conference		✓	Open University System		✓	PUP BPO Center, Pureza Street, Sta. Mesa, Manila	9/10/2017
Cansino, Julius S. Tenerife Jr., Pedrito M.	Orientation on CHED Research and Extension Priorities		✓	PUP VPREPD - REMO		✓	Bulwagang Andres Bonifacio, Ninoy Aquino Library and Learning Resource Center	9/7/2017
Ado, Remedios G. Cansino, Julius S. Mahaguay, Rolito L. Natividad, Ferdinand O. Oquindo, Florinda H. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	Calculating Impacts from Earthquakes, Severe Wind, and Flood Hazards		✓	PUP VPREPD		✓	Claro M Recto Hall	8/30/2017
Ado, Remedios G. Cansino, Julius S. Mahaguay, Rolito L. Lorico, Julian Jr. L. Rodriguez, Joshua Benjamin B. Tenerife, Pedrito Jr. M.	Expanded Tertiary Education Equivalency and Accreditation Program (ETEEAP)/Non-Traditional Study Program Tutoring & Evaluation Process	✓		PUP Open University		✓	ICT Center, Ninoy Aquino Library and Learning Resource Center	8/23/17 to 8/24/17
Pangilinan, Kerubin O.	2017 SWEEP Faculty Immersion Program	✓		SMART Communications Inc.	✓		SMART Office, 2/F PLDT Grace Park Building, 2 nd St. cor. 11 th Ave., Caloocan City	7/24/2017 to 8/4/2017
Tenerife Jr., Pedrito M.	OUS Course Specialists and Staff Development		✓	OUS-IODE		✓	Bulwagang Balagtas, Ninoy Aquino Library and Learning Resource Center	7/23/2017
Cansino, Julius S.	Techonomy 2017: Framing the Role of Technology in Economics		✓	Acer & Windows 10 Pro	✓		Maybank Performing Arts Theater Bonifacio Global City, Taguig	7/7/2017

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Ado, Remedios G. Artificio, Edcel B. Cansino, Julius S. De La Cruz, Arvin R. Mahaguay, Rolito L. Reyes, Lutzer U. Rodriguez, Joshua Benjamin B. Tenerife, Pedrito Jr. M.	Digital Logic Circuit SIMTEL Software Oscilloscope	✓		Humil International Corporation	✓	PUP, CEA Bldg.	6/2/2017
Tenerife Jr., Pedrito M. Tubola, Orland D.	Junior Researchers Proposal Writing Workshop		✓	Metropolitan Manila Industry and Energy Research and Development Consortium (MMDIERDC)	✓	CRD Conference Room CS Annex, Adamson University	5/10/2017 to 5/12/2017
Cansino, Julius S. Mahaguay, Rolito L. Tenerife Jr., Pedrito M. Tubola, Orland D.	Biochemical Characteristics of Selected Ilocos Province Beaches		✓	PUP VPREPD	✓	Claro M Recto Hall	4/17/2017
Cansino, Julius S. Mahaguay, Rolito L. Tenerife Jr., Pedrito M. Tubola, Orland D.	Capacitive Deionization: Previous Studies and Hands-on Demonstration		✓	PUP VPREPD	✓	Claro M Recto Hall	4/17/2017
Cansino, Julius S. Mahaguay, Rolito L. Tenerife Jr., Pedrito M. Tubola, Orland D.	Stoichiometry of Trace elements in the Bering Sea		✓	PUP VPREPD	✓	Bulwagang Bonifacio, Ninoy Aquino Library and Learning Resource Center	4/3/2017
Cansino, Julius S. Mahaguay, Rolito L. Tenerife Jr., Pedrito M. Tubola, Orland D.	Principles of Capacitive Deionization: An Environmentally Friendly Water Purification Technique		✓	PUP VPREPD	✓	Bulwagang Bonifacio, Ninoy Aquino Library and Learning Resource Center	4/3/2017
Natividad, Mark Kervin Z.	Panasonic Hybrid IP PABX-KX- HTS824	✓		Avesco Marketing Corporation	✓	Avesco Marketing Corporation, 810 Aurora Blvd. Cor. Yale Cubao, Quezon City	3/22/2017
De La Cruz, Arvin R.	Philippine Quality Award Assessors Preparatory Course		✓	Department of Trade & Industry Philippine Quality Award Foundation, Inc.	✓	Subic Bay Venezia Hotel, Olongapo, Zambales	3/20/2017 to 3/24/2017

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Ado, Remedios G. Cabrera, Kevin Michael A. Cecogo, Vincent A. Delos Reyes, Norman David F. Legarda, Mary Ann V. Lorico, Julian Jr. L. Maigue, Chenne A. Manalo, Rico M. Natividad, Mark Kervin Z. Pangilinan, Kerubin Reyes, Lutzer U. Sawi, Christopher M. Tenerife, Pedrito Jr. M. Tria, Roman Angelo Velasco, Antonio Y.	Information Security	✓	Computer Engineering Department	✓	College of Engineering Bldg.,	3/18/2017
Artificio, Edcel B. Canlas, Arlene B. Catriz, Elerde Jr. S. Chin, Frank Anthony R. Fernando, Ronald D. Ligayo, Michael Angelo D. Madrigalejos, Danilo C. Mahaguay, Rolito L. Natividad, Ferdinand O. Oquindo, Florinda H. Pajabera, Orlando V. Rodriguez, Joshua Benjamin B. Serviano, Azdie C. Tubola, Orland D. Valentino, Jimmar R. Verzo, Allan B.	Systems, Applications and Products (SAP) in Data Processing	✓	Computer Engineering Department	✓	College of Engineering Bldg.,	3/18/2017
Ado, Remedios G. Cansino, Julius S. Mahaguay, Rolito L. Tenerife, Pedrito Jr. M. Tubola, Orland D.	10 th Annual Research Awards	✓	PUP/DOST	✓	Bulwagang Balagtas, Ninoy Aquino Library and Learning Resources Center	3/9/2017 to 3/10/2017
Natividad, Mark Kervin Z.	Technical Seminar	✓	Institute of Electronics Engineers of the Philippines	✓	Hotel Kimberly, 770 Pedro Gil St., Malate Manila	2/25/2017



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Tenerife Jr., Pedrito M.	Training-Workshop on Writing and Presenting Research Proposals towards Building Science Culture in National Capital Region	✓	National Academy of Science and Technology Department of Science and Technology Outstanding Young Scientists, Inc.	✓	Hotel Jen, Pasay City	2/16/2017 to 2/17/2017
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Prepared by:

Pedrito M.  Tenerife Jr.



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Name of Faculty Member (Surname, First Name, M.I.)	Title/Theme/Topic	Check (✓) if		Sponsor of Training, Seminar/s, etc.	Level Please check (✓) if				Venue	Inclusive Date
		Training	Seminar/ Conference/ workshop/ convention etc.		International	National	Regional	Local		
Cansino, Julius S. Mahaguay , Rolito L. Tenerife Jr., Pedrito M.	Seminar on Intellectual Property		✓	PUP VPREDP Intellectual Property Management Office				✓	ICTO Lab, Phase 1 Ninoy Aquino Library and Learning Resource Center	12/12/2016 to 12/15/2016
Ado, Remedios G.	GS Year-End 2016 Assessment and 2017 Action Planning "Expanding the Possibilities for Graduate School and Upholding the PUP Vision"		✓	PUP OVPAAG Graduate School				✓	Cebu Room PUP Hasmin Hostel	12/12/2016
Tenerife Jr., Pedrito M.	Higher Education Institution Community Extension Forum 2016		✓	PUP Extension Management Office		✓			Century Park Hotel Manila	12/2/2016
Ado, Remedios G. Mahaguay , Rolito L. Tenerife Jr., Pedrito M. Velasco, Antonio Y.	2016 ICpEP National Convention, 4 th ICpEP National Conference on Computer Applications, Innovations, Technologies and Engineering (CAITE 2016) and National CpE Student Challenge		✓	Institute of Computer Engineers of the Philippines, Inc.		✓			Pearlmount Hotel Limketkai Center, Cagayan de Oro City.	11/23/2016 to 11/26/2016
Artificio, Edcel B.	The 7 Habits of Highly Effective People Education Version		✓	FranklinCovey	✓				Teach for the Philippines Makati City	11/19/2016
Ado, Remedios G. Natividad, Ferdinand O. Tubola, Orland D.	Professorial Chair Lecture " Earthquake Hazards and Risk Assessment".		✓	Institute for Science and Technology Research Center for Engineering and Technology Research		✓			Bulwagang Bonifacio Hall Ninoy Aquino Library and Learning Resources Center	11/16/2016
Dela Cruz, John R.	Working Beyond Borders and Pushing Boundaries for the Latest Technological Breakthroughs		✓	Institute of Electronics Engineers of the Philippines – Quezon City Chapter			✓		Fortune Hall Elements, @Centris Eton Centris	11/11/2016 to 11/12/2016



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Ado, Remedios G. Cansino, Julius S. Lorico Jr., Julian L. Madrigalejos, Danilo C. Mahaguay, Rolito L. Natividad, Ferdinand O. Oquindo, Florinda H. Reyes, Lutzer U. Sawi, Christopher M. Tenerife Jr., Pedrito M.	Research Colloquium in Computing for Faculty and Students "Computing Innovations Toward Mitigation of Societal Challenges"	✓	Institute for Science and Technology Research in collaboration with College of Computer and Information Sciences and United States Agency for International Development	✓		Bulwagang Bonifacio, Ninoy Aquino Library and Learning Resource Center	9/17/2016
Cansino, Julius S. Mahaguay, Rolito L. Tenerife Jr., Pedrito M.	Academic Teaching Excellence Course	✓	British Council in the Philippines	✓		British Council in the Philippines Ortigas Centre, Pasig City	9/16/2016
Ado, Remedios G. Artificio Edcel B. Cabrera, Kevin Michael A. Canlas, Arlene B. Cansino, Julius S. Khan, Ma. Leona S. Lorico Jr., Julian L. Madrigalejos, Danilo C. Mahaguay, Rolito L. Maigne, Chene A. Natividad, Ferdinand O. Natividad, Mark Kervin Z. Oquindo, Florinda H. Pajabera, Orlando V. Reyes, Lutzer U. Rodriguez, Joshua Benjamin B. Sawi, Christopher M. Serviano, Azdie C. Tenerife Jr., Pedrito M. Tubola, Orland D. Tenerife, Pedrito Jr. M. Tubola, Orland D.	Software Freedom Day "Internet of Things"	✓	8Layer Technologies, Inc.	✓		Bulwagang Balagtas, Ninoy Aquino Library and Learning Resource Center	9/14/2016
Tenerife, Pedrito Jr. M. Tubola, Orland D.	Hatid ng Agham at Teknolohiya Kaunlaran ng Bawat Isa	✓	DOST-PCIEERD	✓		Widus Hotel, Clarkfield Pampanga	6/29/2016



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Ado, Remedios G. Cansino, Julius S. Fernando, Ronald D. Mahaguay, Rolito L. Natividad, Ferdinand O. Oquindo, Florinda H. Reyes, Lutzer U. Tenerife, Pedrito M. Tubola, Orland D.	College of Engineering General Faculty Assembly		✓	CE Faculty Club			✓	CEA AVR	6/28/2016
Dela Cruz, John R.	Electronics Engineers in a Digitally-Transformed Nation		✓	Institute of Electronics Engineers of the Philippines, Inc. – Quezon City Chapter			✓	National Telecommunications Commission	6/24/2016 to 6/25/2016
Tenerife, Pedrito Jr. M. Tubola, Orland D.	The Internet of Things Technation Caravan		✓	8LAYER & Computer Engineering Department		✓		Claro M Recto Hall	6/23/2016
Cansino, Julius L.	Instrumentation Technical Training	✓		Emerson / US STRIDE		✓		Emerson, North Edsa	5/11/2016 to 6/01/2016
Mahaguay, Rolito L.	K – 12 Training	✓		PUP SHS			✓	Bulwagang Balagtas, Ninoy Aquino Library and Learning Resource Center	5/19/2016 to 5/20/2016
Canlas, Arlene B. Cansino, Julius S. Lorico, Julian Jr. L. Mahaguay, Rolito L. Natividad, Ferdinand O. Oquindo, Florinda H. Tenerife, Pedrito M. Verzo, Allan B.	CE Faculty Development Seminar Series		✓	CE Faculty Club			✓	Tanauan City Batangas	5/12/2016 to 5/14/2016
Mahaguay, Rolito L. Tenerife, Pedrito Jr. M.	Test Construction		✓	PUP OVPA			✓	Accenture Room	5/06/2016
Tenerife, Pedrito Jr. M.	Science and Technology Electoral Agenda 2016: Developing a Genuine S&T for the People		✓	AGHAM – Advocate of Science and Technology for the People		✓		College of Engineering AVR	4/25/2016
Reyes, Lutzer U.	9th PMP Review Course	✓		Project Management Institute Philippines Chapter		✓		Discovery Suites, 25, ADB Avenue, Ortigas, Center, Pasig City	4/11/2016 to 4/15/2016
Tubola, Orland D.	ASEAN Citation Index(ACI) Editors Workshop		✓	Commission on Higher Education		✓		Midas Hotel and Casino, Roxas Blvd, Pasay City	4/1/2016



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Ado, Remedios G. Mahaguay, Rolito L. Tenerife, Pedrito Jr. M. Tubola, Orland D.	9 th Annual Research Awards		✓	PUP/DOST		✓		Claro M. Recto Hall PUP Manila	3/10/2016 to 3/11/2016
Dela Cruz, John R.	#PresentationHacks: Effective Presentation Skills		✓	De La Salle University		✓		De La Salle University, Manila	3/5/2016
Mahaguay, Rolito L. Natividad, Ferdinand O. Tenerife, Pedrito Jr. M. Tubola, Orland D.	DOST-TAPI Consultative Meeting		✓	PUP Intellectual Property Management Office			✓	Tahanan Ng Alumni Building	3/3/2016
Ado., Remedios G. Tenerife, Pedrito Jr. M.	IDEA Entrepreneurship Workshop 2016	✓		Philippine Development Foundation (PhilDev)		✓		Asian Institute of Management, Makati City	2/19/2016 to 2/21/2016
Tenerife, Pedrito Jr. M.	PUP Program Accreditation: Status Updates (Preliminary Survey Visit)		✓	PUP Quality Assurance Center			✓	Cebu Room, 7 th Floor Hasmin Hostel	2/9/2016

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Name of Faculty Member (Surname, First Name, M.I.)	Title/Theme/Topic	Check (✓) if		Sponsor of Training, Seminar/s, etc.	Level Please check (✓) if				Venue	Inclusive Date
		Training	Seminar/ Conference/ workshop/ convention etc.		International	National	Regional	Local		
Tubola, Orland D.	Training-Workshop on "When Work and Life Balance: Everyone Wins"	✓		PUP-OVPREPD				✓	BPO Center, Sta. Mesa, Manila	12/17/2015
Tenerife, Pedrito Jr. M.	6 th Global Congress & Conferment Ceremony New Paradigm of Leadership in Business & Industry, Education, and Public Administration		✓	Royal Institution Singapore Royal Institution, Philippines	✓				Manila Pavilion Hotel	12/12/2015
Dela Cruz, John R.	Navigating New Directions for the Electronics Engineers		✓	Institute of Electronics Engineers of the Philippines, Inc. – Quezon City Chapter			✓		National Telecommunications Commission Cebu Grand Hotel, Cebu City	11/27/2015 to 11/28/2015
Mahaguay, Rolito L. Manalo, Rico M. Tenerife, Pedrito Jr. M. Velasco, Antonio Y.	ICpEP National Convention 2015: Enhancing Competencies and Meeting Future Challenges		✓	Institute of Computer Engineers of the Philippines, Inc. (ICpEP)		✓			Advanced Security and Safety Solution Inc.	11/25/2015 to 11/27/2015
Natividad, Mark Kervin Z.	eXaminer SX Explosives Detection System (EDS) X-ray Machine	✓		Advanced Security and Safety Solution Inc.		✓			Bulwagang Bonifacio, Ninoy Aquino Library and Learning Resource Center	11/25/2015
Tubola, Orland D.	WORLD SCIENCE DAY For Peace and Development- Philippines Science for Sustainable Future		✓	AGHAM – Advocates of Science and Technology for the People				✓	Cessna Business Park, Bangalore, India	10/6/2015 to 10/10/2015
Legarda, Mary Ann V.	IGNITE Asia Pacific	✓		Oracle (Philippines) Corporation	✓					



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Reyes, Lutzer U.	Project Management Fundamentals Course 35	✓		Project Management Institute Philippines Chapter		✓		Discovery Suites, ADB Avenue, Ortigas Center, Pasig City	6/22/2015 to 6/26/2015
Tenerife, Pedrito Jr. M.	5 th Global Congress & Conferment Ceremony ASEAN Integration: Impact on Business & Industries, Education, and Public Administration		✓	Royal Institution Singapore Royal Institution, Philippines	✓			Century Park Hotel, Manila	6/6/2015
Ado, Remedios G. Cansino, Julius S. Natividad, Ferdinand O. Tenerife, Pedrito Jr. M.	Outcomes-Based Development and Implementation for College of Engineering		✓	PUP-CE			✓	Pine Breeze Baguio City	6/3/2015 to 6/5/2015
Ado, Remedios G. Lorico, Julian Jr. L. Natividad, Ferdinand O. Tenerife, Pedrito Jr. M.	Resounding the University Funded International Papers: A Research Colloquium		✓	PUP			✓	Ninoy Aquino Library and Learning Resources Center	5/27/2015
Tenerife, Pedrito Jr. M.	International Gendered Development Intervention Conference: Focus on Disaster Risk Reduction Management and Climate Change Adaptation		✓	Iligan Institute of Technology	✓			College of Engineering Amphitheatre, MSU-Iligan Institute of Technology, Iligan City	5/21/2015 to 5/23/2015
Mahaguay, Rolito L. Tenerife, Pedrito Jr. M.	Seminar-Workshop for the Preparation of OPCR and IPCR		✓	PUP			✓	PUP Call Center	5/15/2015
Artificio, Edcel B.	Teaching English Learners: Theory and Practice		✓	Loyola Marymount University School of Education		✓		Loyola Marymount University School of Education	4/27/2015 to 4/29/2015
Artificio, Edcel B.	Inclusive Teaching Practices: Providing Accommodations and Modifications to Support all Students in Accessing the Curriculum		✓	Loyola Marymount University School of Education		✓		Loyola Marymount University School of Education	4/27/2015 to 4/29/2015
Tubola, Orland D.	Forest Products Research and Development (FPRDI) Technologies		✓	Department of Science and Technology - NCR			✓	DOST Executive Lounge, DOST Compound, Bicutan, Taguig City	4/22/2015
Natividad, Mark Kervin Z.	Service Excellence Workshop		✓	LBP Service Corporation		✓		Training Room, 2 nd Floor ASTI Bldg., MIAA, Pasay City	4/21/2015



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Reyes, Lutzer U.	Project Management Fundamentals Course 35	✓		Project Management Institute Philippines Chapter		✓		Discovery Suites, ADB Avenue, Ortigas Center, Pasig City	6/22/2015 to 6/26/2015
Tenerife, Pedrito Jr. M.	5 th Global Congress & Conferment Ceremony ASEAN Integration: Impact on Business & Industries, Education, and Public Administration		✓	Royal Institution Singapore Royal Institution, Philippines	✓			Century Park Hotel, Manila	6/6/2015
Ado, Remedios G. Cansino, Julius S. Natividad, Ferdinand O. Tenerife, Pedrito Jr. M.	Outcomes-Based Development and Implementation for College of Engineering		✓	PUP-CE			✓	Pine Breeze Baguio City	6/3/2015 to 6/5/2015
Ado, Remedios G. Lorico, Julian Jr. L. Natividad, Ferdinand O. Tenerife, Pedrito Jr. M.	Resounding the University Funded International Papers: A Research Colloquium		✓	PUP			✓	Ninoy Aquino Library and Learning Resources Center	5/27/2015
Tenerife, Pedrito Jr. M.	International Gendered Development Intervention Conference: Focus on Disaster Risk Reduction Management and Climate Change Adaptation		✓	Iligan Institute of Technology	✓			College of Engineering Amphitheatre, MSU-Iligan Institute of Technology, Iligan City	5/21/2015 to 5/23/2015
Mahaguay, Rolito L. Tenerife, Pedrito Jr. M.	Seminar-Workshop for the Preparation of OPCR and IPCR		✓	PUP			✓	PUP Call Center	5/15/2015
Artificio, Edcel B.	Teaching English Learners: Theory and Practice		✓	Loyola Marymount University School of Education		✓		Loyola Marymount University School of Education	4/27/2015 to 4/29/2015
Artificio, Edcel B.	Inclusive Teaching Practices: Providing Accommodations and Modifications to Support all Students in Accessing the Curriculum		✓	Loyola Marymount University School of Education		✓		Loyola Marymount University School of Education	4/27/2015 to 4/29/2015
Tubola, Orland D.	Forest Products Research and Development (FPRDI) Technologies		✓	Department of Science and Technology - NCR			✓	DOST Executive Lounge, DOST Compound, Bicutan, Taguig City	4/22/2015
Natividad, Mark Kervin Z.	Service Excellence Workshop		✓	LBP Service Corporation		✓		Training Room, 2 nd Floor ASTI Bldg., MIAA, Pasay City	4/21/2015

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Ado, Remedios G.	Orientation-Writeshop on Strategic Performance Management System – OPCR and IPCR		✓	PUP				✓	Ninoy Aquino Library and Learning Resource Center	1/21/2015
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Prepared by:

Pedrito M. Tenerife Jr.



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		Training	Seminar/ Conference/ workshop/ convention etc.		International	National	Regional	Local		
Mahaguay, Rolito L. Tenerife, Pedrito Jr. M.	Quality Management System (ISO 9001:2008) Orientation		✓	PUP				✓	Punongbayan Multimedia Room	12/19/2014
Legarda, Mary Ann V.	Sandler Sales Skills Foundation Workshop		✓	Oracle (Philippines) Corporation	✓				Singapore	12/16/2014 to 12/17/2014
Cansino, Julius S. Natividad, Ferdinand O.	Quality Management System (ISO 9001:2008) Orientation		✓	PUP				✓	Bulwagang Bonifacio, Ninoy Aquino Library and Learning Resource Center	12/16/2014
Ado, Remedios G.	4th Global Congress & Conferment Ceremony "ASEAN Integration 2015: Challenges & Directions on Business & Industry, Education, and Public Administration"		✓	Royal Institution Singapore Royal Institution, Philippines	✓				Manila Hotel	11/29/2014
Tenerife, Pedrito Jr. M.	10 th National Biotechnology Week Celebration		✓	Commission on Higher Education		✓			CHED, HEDC Building, C.P. Garcia Avenue, UP Diliman, Quezon City	11/24/2014 to 11/26/2014
Tubola, Orland D.	Renewables Readiness Assessment Workshop for Mainstreaming Renewables in the Philippines		✓	Department of Energy International Renewable Energy Agency (IRENA) Deutsche Gesellschaft for Internationale Zusammenarbeit (GIZ)	✓				5 th Floor Oakwood Premier JOY-NOSTALG Center Manila, 17 ADB Avenue, Ortigas Center, Pasig	10/22/2014 to 10/23/2014
Mahaguay, Rolito L.	Outcomes Based Workshop		✓	PUP				✓	Balayan Batangas	10/20/2014 to 10/22/2014
Tubola, Orland D.	Making Impact Evaluation Matter Better Evidence for Effective Policies and Program		✓	Philippine Institute of Development Studies		✓			ADB Headquarters	9/1/2014 to 9/3/2014
Reyes, Lutzer U.	Supply Chain Strategy, Design and Compliance		✓	Procurement and Supply Institute of Asia		✓			Heritage Hotel, Pasay City	9/10/2014 to 9/11/2014



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**

Reyes, Lutzer U.	Leadership and Governance for Globally Driven Excellence			PUP Graduate School				✓	Hasmin Hostel	8/23//2014
Legarda, Mary Ann V.	Hardware Immersion Training (System LOB)	✓		Oracle (Philippines) Corporation	✓				Singapore	8/21/2014 to 8/22/2014
Ado, Remedios G.	ASHRAE Region III 17th Chapters Regional Conference		✓	American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)	✓				Howard Plaza Hotel, Taipei, Taiwan	8/15/2014
Tubola, Orland D.	Forum on Emerging Technologies		✓	Department of Science and Technology Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD)		✓			Forum Hall 1, SMX Convention Center, Diosdado Macapagal Avenue, Pasay City	7/24/2014
Cansino, Julius S. Natividad, Ferdinand O. Tenerife, Pedrito Jr. M.	From Academic Research to Commercialization: "Managing the Utilization and Transfer of Innovations an Inventions"		✓	PUP				✓	7 th Floor, Manila Room, Hasmin Hostel	4/22/2014
Oquindo, Florinda H. Tenerife, Pedrito Jr. M.	University-Wide Faculty Orientation on the PUP Research Program		✓	PUP				✓	7 th Floor, Manila Room, Hasmin Hostel	4/7/2014
Tubola, Orland D.	CERN School Philippines 2014		✓	European Organization for Nuclear Research (CERN) Department of Science and Technology University of the Philippines		✓			National Institute of Physics, University of the Philippines, Diliman, Quezon City	3/31/2014 to 4/8/2014
Ado, Remedios G.	2014 International Conference on Information Security and Artificial Intelligence		✓	Science and Engineering Institute Hanoi, Vietnam	✓				Hanoi, Vietnam	2/27/2014 to 2/28/2014
Reyes, Lutzer U.	ACLE: Project Management		✓	LBC Express, Inc.				✓	General Aviation Compound, Domestic Airport, Pasay City	2/4/2014
Tenerife, Pedrito Jr. M.	Strategic Performance Management System Orientation and Planning Workshop		✓	PUP				✓	Manila Room Hasmin Hostel	1/14/2014 to 1/15/2014

Prepared by:


Pedrito M. Tenerife Jr.



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COMPUTER ENGINEERING DEPARTMENT

Certificate in seminars, workshops and
conferences or some in-service training
courses



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COMPUTER ENGINEERING DEPARTMENT



Polytechnic University of the Philippines
Office of the Vice President for Academic Affairs
QUALITY ASSURANCE CENTER
PUP Mabini Campus, Sta. Mesa, Manila

This

CERTIFICATE OF ATTENDANCE

is hereby given to

ARVIN R. DELA CRUZ

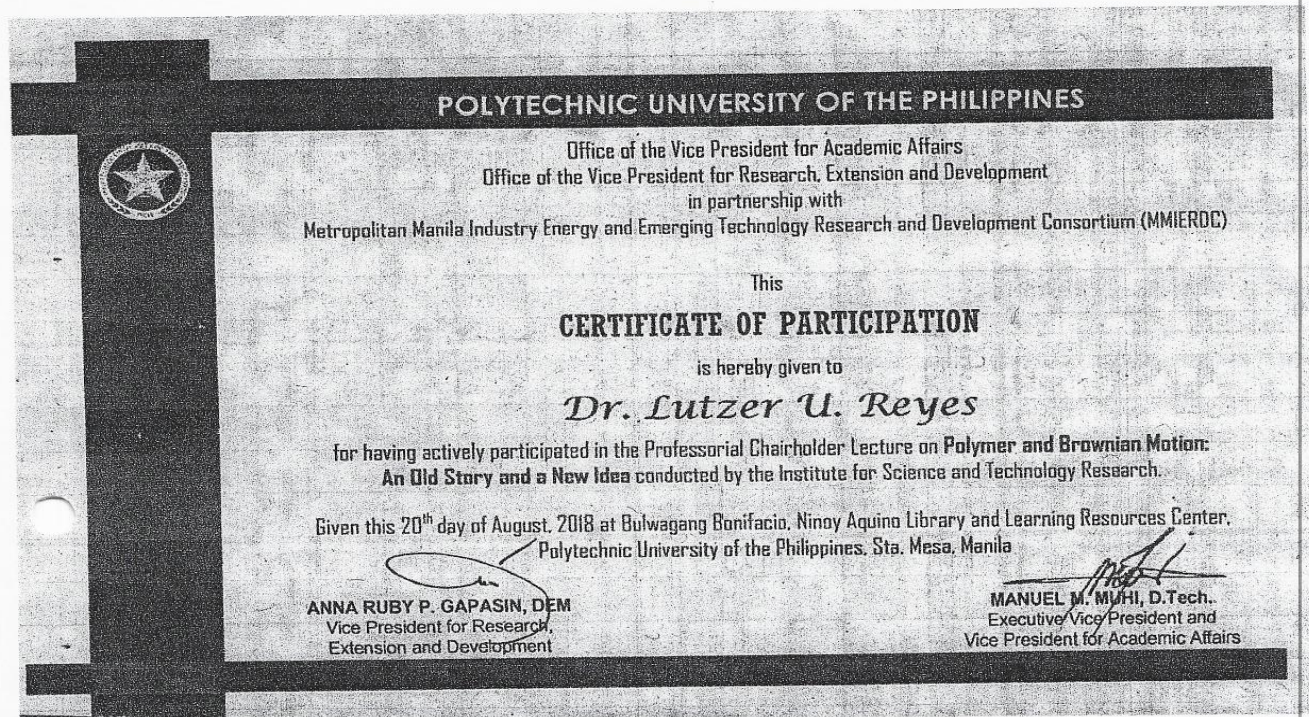
*for having attended and participated in the seminar on
Writing A Test/Questionnaire, Rubrics & Assessment
held on September 25, 2018 at the ICTO Laboratory
Phase 2, Ninoy Aquino Library, Learning &
Resource Center, PUP Mabini Campus,
Sta. Mesa, Manila*

*Given this 25th Day of September 2018
at the PUP Mabini Campus, Sta. Mesa, Manila.*


DR. SANJAY P. CLAUDIO
Director



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COMPUTER ENGINEERING DEPARTMENT





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COMPUTER ENGINEERING DEPARTMENT



Smart Wireless Engineering Education Program

*Diploma
Completion*

This certificate is awarded to

ROLITO L. MAHAGUAY

who has successfully completed the

CCNA Routing & Switching Track | Module 2 : IP Routing

Routing Concepts * Static Routing Concepts * Configuring Static Routes * Dynamic Routing Concepts * OSPF Concepts * Configuring and Troubleshooting OSPF Protocol * EIGRP Concepts * Configuring and Troubleshooting EIGRP * IPv6 Routing

Conducted on February 5-7, 2018
at Polytechnic University of the Philippines-Manila, Sta. Mesa, Manila
Awarded on the 7th day of February in the year 2018

CLINT B. CATION

Manager, Office of the Network Planning & Engineering Head
Technology Group
SMART Communications Inc.



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COMPUTER ENGINEERING DEPARTMENT



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*Excellence
Empowerment*

This certificate is awarded to

ARVIN ROXAS DE LA CRUZ

who has successfully completed the

CCNA Routing & Switching Track | Module 2 : IP Routing

Routing Concepts * Static Routing Concepts * Configuring Static Routes * Dynamic Routing Concepts * OSPF Concepts * Configuring and Troubleshooting OSPF Protocol * EIGRP Concepts * Configuring and Troubleshooting EIGRP * IPv6 Routing

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SMART Communications Inc.



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COMPUTER ENGINEERING DEPARTMENT



PHILIPPINE SOCIETY FOR QUALITY, INC.

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

Dr. Lutzex Reyes

FOR HAVING ACTIVELY PARTICIPATED IN THE

General Membership Meeting

with a Theme

The Current Status and Future of Data Science and Analytics

HELD ON JANUARY 17, 2018 AT CROWNE PLAZA GALLERIA MANILA
GIVEN THIS SEVENTEENTH DAY OF JANUARY, YEAR TWO THOUSAND AND
EIGHTEEN IN QUEZON CITY, PHILIPPINES

CORAZON C. TAN
PRESIDENT

WARREN M. ENTERIA
CHAIRMAN, COMMUNITY AFFAIRS



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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Smart Wireless Engineering Education Program

This certificate is awarded to

ARVIN R. DE LA CRUZ

who has successfully completed the

**CCNA Routing & Switching Track |
Module 1 : IP Fundamentals**

Networking Basics * OSI Layers * Network Topologies * IP Addressing * Address Class *
Sub-netting * Internetwork Operating System * Basic Router Configuration * Network
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Technology Group
SMART Communications Inc.



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COMPUTER ENGINEERING DEPARTMENT



CERTIFICATE OF COMPLETION

This is to certify that

Lutzger U. Reyes

has completed the iQueue-QMS (Intelligent Queue Management System) Training
on October 3, 2017

held at LBC SM Mall of Asia SP110-111 Branch South Parking Building, Mall of Asia, Pasay City 1300 Philippines.

Given this 30th Day of October Twenty Seventeen at

Unit 305, PMHA Building 4 East Avenue corner V. Luna Quezon City 0840 Philippines.

[Signature]
POLY L. ILIO
Managing Director

[Signature]
MARVIN M. AYENDE
Director



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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



IECEP FOUNDATION, INC. (IECEP Foundation, Inc.)

Accredited CPD Provider of the Professional Electronics Engineers,
Electronics Engineers and Electronics Technicians by the
Professional Regulations Commission of the Republic of the Philippines
Accreditation No. 2017-010



awards this

Certificate of Participation

to

JOHN R. DELA CRUZ

For his/her active PARTICIPATION on the

**3RD ELECTRONICS
SYSTEMS
& TECHNOLOGIES
CONVENTION 2018**

held on November 29-30, 2018 at SMX Convention Center, Mall of Asia Complex, Pasay City Philippines

Given this 30th day of November in the year of our Lord two thousand and eighteen at
Pasay City National Capital Region, Republic of the Philippines

CREDITED WITH 15 CPD POINTS

ROMULO R. AGATEY, PECE, APEC/ASEAN ENGR.



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COMPUTER ENGINEERING DEPARTMENT

Certificate
OF PARTICIPATION

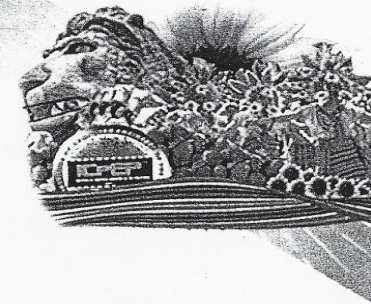
is awarded to

Rolito L. Mahaguay

for actively participating in the
6th ICpEP National Convention with the theme:
**"Enhancing Computer Engineers' Capability Towards
4th Industrial Revolution and Technology Business Incubation"**

held on November 26-29, 2018 at the Hotel Supreme Convention Plaza, Baguio City

Given this 29th day of November 2018 at the Hotel Supreme Convention Plaza,
Baguio City.



Dionisio R. Tandingan Jr.
Engr. Dionisio R. Tandingan Jr.
2018 NatCon Chair / VP for Education

Desiderio R. Apag III
Engr. Desiderio R. Apag III
ICpEP National President

 www.icpep.org.ph

 www.facebook.com/ICpEPOfficial



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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

Certificate
OF PARTICIPATION

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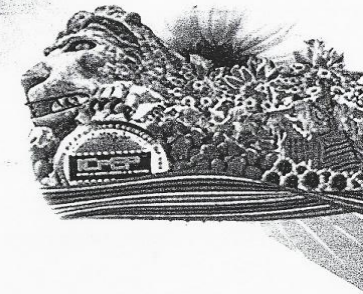
Julius Cansino

for actively participating in the
6th ICpEP National Convention with the theme.

**"Enhancing Computer Engineers' Capability Towards
4th Industrial Revolution and Technology Business Incubation"**

held on November 26-29, 2018 at the Hotel Supreme Convention Plaza, Baguio City

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Dionisio R. Fandingan Jr.
Engr. Dionisio R. Fandingan Jr.
2018 NatCon Chair / VP for Education

Desiderio R. Apag III
Engr. Desiderio R. Apag III
ICpEP National President

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COMPUTER ENGINEERING DEPARTMENT

Certificate
OF PARTICIPATION

is awarded to

Orlando V. Pajabera

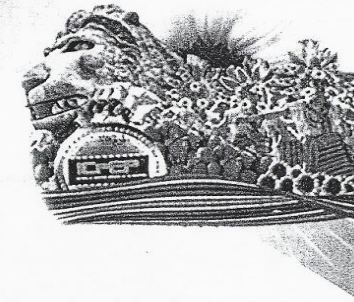
for actively participating in the

6th ICpEP National Convention with the theme:

**"Enhancing Computer Engineers' Capability Towards
4th Industrial Revolution and Technology Business Incubation"**

held on November 26-29, 2018 at the Hotel Supreme Convention Plaza, Baguio City

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Baguio City.



Dionisio R. Tandingan Jr.
Engr. Dionisio R. Tandingan Jr.
2018 NatCon Chair / VP for Education

Desiderio R. Apag III
Engr. Desiderio R. Apag III
ICpEP National President

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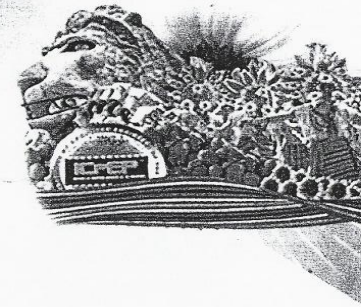
is awarded to

Ferdinand O. Natividad

for actively participating in the
6th ICpEP National Convention with the theme:
**"Enhancing Computer Engineers' Capability Towards
4th Industrial Revolution and Technology Business Incubation"**

held on November 26-29, 2018 at the Hotel Supreme Convention Plaza, Baguio City

Given this 29th day of November 2018 at the Hotel Supreme Convention Plaza,
Baguio City.



Dionisio R. Tandingan Jr.
Engr. Dionisio R. Tandingan Jr.
2018 NatCon Chair / VP for Education

Desiderio R. Apag III
Engr. Desiderio R. Apag III
ICpEP National President

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OF PARTICIPATION

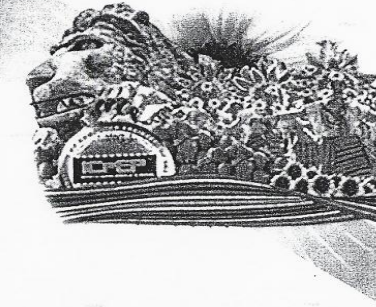
is awarded to

Antonio Y. Velasco

for actively participating in the
6th ICpEP National Convention with the theme
**"Enhancing Computer Engineers' Capability Towards
4th Industrial Revolution and Technology Business Incubation"**

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Given this 29th day of November 2018 at the Hotel Supreme Convention Plaza,
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Dionisio R. Tandingan Jr.
Engr. Dionisio R. Tandingan Jr.
2018 NatCon Chair / VP for Education

Desiderio R. Apag III
Engr. Desiderio R. Apag III
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POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
IN COLLABORATION WITH
DEPARTMENT OF TRANSPORTATION AND PHILIPPINE RAILWAY ENGINEERS ASSOCIATION

This

Certificate of Participation

is hereby awarded to

JOHN DELA CRUZ

for having actively participated in the

1ST NATIONAL RAILWAY ENGINEERING CONFERENCE

with the theme

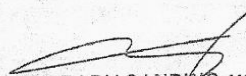
"DEVELOPING THE FUTURE OF RAILWAY INDUSTRY IN THE PHILIPPINES"

held at the Bulwagang Balagtas, 4th floor Ninoy Aquino Library and Learning Resources Center, PUP Mabini Campus, on November 21-22, 2018.

Given this 22nd day of November, 2018 at the Bulwagang Balagtas, 4th floor NALLRC, PUP Mabini Campus, Sta. Mesa, Manila


GUILLERMO O. BERNABE, DEM
Chairman
National Railway Engineering Conference


RAMIR M. CRUZ, MSCM
Co-Chairman
National Railway Engineering Conference


ISRAEL A. RADIAGANDING, MSME
Philippine Railway Engineers Association


MANUEL M. MUHI, DTech
Vice President for Academic Affairs
Polytechnic University of the Philippines



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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES, INC.
PRC Accreditation No. (I-APO No. 03)
The Integrated Accredited Professional Organization of Professional Electronics Engineers, Electronics Engineers
and Electronics Technicians by the Professional Regulation Commission, Republic of the Philippines (I-APO No. 03)
CPD Provider Accreditation No. 2003-001

Certificate of Participation

awarded to

JOHN R. DELA CRUZ

as Facilitator during



**IEEEP NATIONAL
STUDENT SUMMIT**
*Shaping the Future with Latest Advancements
in Electronics Engineering*

Held on November 10, 2018 at Bahay ng Alumni, University of the Philippines
Diliman, Quezon City


GERHARD P. TAN, PECE, AE, ACPE, APEC
Secretary General


DENNIS L. MOLINA, PECE
Vice President for Education


ARIEL H. PADILLA, PECE
National President



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COMPUTER ENGINEERING DEPARTMENT



STEPHEN ZUELLIG
GRADUATE SCHOOL
OF DEVELOPMENT MANAGEMENT

CERTIFICATE OF COMPLETION

17th Leadership and Management of Change for Development Managers:
The Bridging Leadership Approach
5-9 November 2018

This is to certify that

EDCEL B. ARTIFICIO

has attended and completed the required 40 hours
LMC/DM short course program

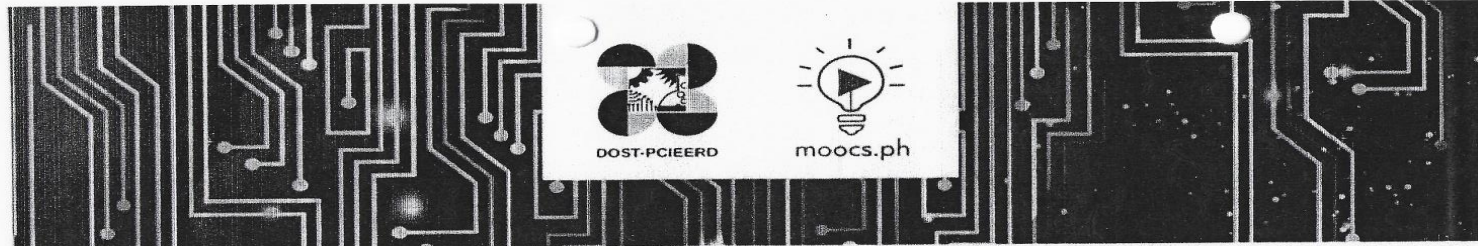
Given this 9th day of November 2018
Makati City, Philippines

Ma. Carmen L. Testa, PMP, ACC
Program Director

Kenneth Hartigan-Go, MD, MD (UK)
School Head



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



This is to certify that

Edcel Artificio

has successfully completed

DATA, CONNECTIVITY, AND INTELLIGENCE: DATA SCIENCE TRACK
of the Data Science course under Coursera

through the project, "*Learning at Scale Vol. I: Data Science Track*",
jointly organized by DOST-PCIEERD and MOOCS.PH
from October 9, 2017 to March 29, 2018.

Given this 8th day of June 2018 at The Heritage Hotel Manila.


ENGR. RAUL C. SABULARSE


Deputy Executive Director and Officer-in-Charge
DOST-PCIEERD


ALLAN DE VENECIA

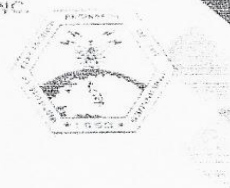
Founder and CEO
MOOCS.PH



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

 ELECTRONICS ENGINEERS OF THE PHILIPPINES FOUNDATION, INC.
(EECEP Foundation, Inc.)

Accredited CPD Provider of the Professional Electronics Engineers,
Electronics Engineers and Electronics Technicians by the
Professional Regulation Commission of the Republic of the
Philippines
Accreditation No. 2017-010



awards this

Certificate of Participation

to

JOHN R. DELA CRUZ

For his/her active PARTICIPATION on the

SYSTEMS
& TECHNOLOGY
2018

held on October 20-21, 2018 at Leong Hall Ateneo De Manila University, Quezon City

Given this 21st day of October in the year of our Lord two thousand and eighteen at
Quezon City, National Capital Region, Republic of the Philippines

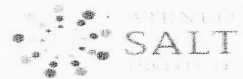
CREDITED WITH 15 CPD POINTS


DENNIS L. MOLINA, PECE


ROMULO R. AGATEP, PECE, AFEC/ASEAN ENGR.



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COMPUTER ENGINEERING DEPARTMENT



EducFrontiers2018



Certificate of

COMPLETION

This certifies that

Edcel Artificio

has completed all the requirements for the

**API-JEC International Conference on
Educational Frontiers 2018**

with Program Accreditation Number **2018-124-1586** at
at the Ateneo de Manila University, from **October 3–5, 2018**
and obtained **15 CPD** units

Jose Eos Trinidad
Jose Eos Trinidad
Conference Director

Dr. Johannes Eka Priyatma
Dr. Johannes Eka Priyatma
Conference Chairperson

Dr. Cornelia Caparal Soto
Dr. Cornelia Caparal Soto
Education Department Chair

(02) 8713 5968 | dcoe_chair@gmail.com
RM322 CEA BLDG. NDC COMPOUND,
ANONAS COR. PUREZA STREETS, STA. MESA, MANILA





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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Internet
Society



DICT
DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

JTEC

This
Certificate of Participation

is given to

JOHN R. DELA CRUZ

for actively participating in the
**WORKSHOP ON
INTERNET OF THINGS**
held on the 13th day of December 2018 at
Eatwood Richmond Hotel, Quezon City, Philippines

Given this 13th day of December 2018.

MARIA TERESA MAGNO-GARCIA

OIC Director, National ICT Planning, Policy and Standards Bureau, DICT



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

City
Electronics Engineers and Electronics Technicians by the Professional Regulations
Republic of the Philippines (I-APO No.:03) CPD Provider Accreditation No.: 2009-0

presents this

Certificate of Attendance

to

MARK KERVIN Z. NATIVIDAD

For attending the IECEP QC Midyear Convention 2018
held at Hive Hotel and Convention Place, Quezon City on June 29 - 30, 2018

16.0 CPD Point(s)

Topics

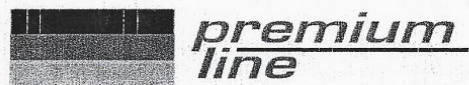
Cybersecurity Governance Issues in the Digital Age
Designing Practical Data Centers
Development on IEC International Standard and IEC Young Professional Program
Electromagnetic Compatibility
Fundamentals of Cybersecurity
Intelligent Cities: Government Digital Transformation
Space Technologies and the First Filipino Built Microsatellite
Telecommunications and Broadcast Regulations
Updates on the Telecommunication Landscape: The Philippine Electronics Code


GERARD M. SEVILLA, ECE
Convention Chair


VANESSA J. FLAMINIAN, P
Governor



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



This certifies that

ARLENE B. CANLAS

*has participated in
Premium Line Cabling Seminar and Training Program*

CERTIFICATE OF PARTICIPATION

Given this 14th day of JUNE 2018

at Ruby-Opal Ballroom, Crowne Plaza Ortigas Ave.
corner Asian Development Bank Ave., Ortigas Center, Quezon City 1100, Metro Manila

Mr. Robert Grischany
General Manager
Premium-Line Systems GmbH

Mr. Garfield Tseng
Country Director, Philippines
YFC-BonEagle International, Inc.



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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Smart Wireless Engineering Education Program



This certificate is awarded to

JOSHUA BENJAMIN B. RODRIGUEZ

who has successfully completed the

CCNA Routing & Switching Track | Module 2 : IP Routing

Routing Concepts * Static Routing Concepts * Configuring Static Routes * Dynamic Routing Concepts * OSPF Concepts * Configuring and Troubleshooting OSPF Protocol * EIGRP Concepts * Configuring and Troubleshooting EIGRP * IPv6 Routing

Conducted on February 5-7, 2018
at Polytechnic University of the Philippines-Manila, Sta. Mesa, Manila
Awarded on the 7th day of February in the year 2018

CLINT B. CATION

Manager, Office of the Network Planning & Engineering Head
Technology Group
SMART Communications Inc.



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



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Sub-netting * Internetwork Operating System * Basic Router Configuration * Network
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Awarded on the 19th day of January in the year 2018

CLINT B. CATION

Manager, Office of the Network Planning & Engineering Head
Technology Group
SMART Communications Inc.



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COMPUTER ENGINEERING DEPARTMENT



Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Julian L. Lorico, Jr.

for having attended the seminar with the topic,

INFORMATION SECURITY

as part of the UNDERSTANDING IT series of seminars with the theme,

"THE AGE OF INFORMATION TECHNOLOGY, THE BEGINNING OF THE FUTURE".

Given this 18th day of March in the year of our Lord,

Two Thousand and Seventeen at the

Polytechnic University of the Philippines, College of Engineering and Architecture Building, Sta. Mesa, Manila

Mr. Jeffrey Antonio Diaz
SPEAKER, INFORMATION SECURITY



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**



Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

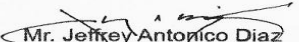
CERTIFICATE of PARTICIPATION

is hereby awarded to

Dr. Remedios G. Ado

for having attended the seminar with the topic,
INFORMATION SECURITY
as part of the UNDERSTANDING IT series of seminars with the theme,
"THE AGE OF INFORMATION TECHNOLOGY, THE BEGINNING OF THE FUTURE".

Given this 18th day of March in the year of our Lord,
Two Thousand and Seventeen at the
Polytechnic University of the Philippines, College of Engineering and Architecture Building, Sta. Mesa, Manila


Mr. Jeffrey Antonio Diaz
SPEAKER, INFORMATION SECURITY



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Florinda H. Oquindo

for having attended the seminar with the topic,
SYSTEMS, APPLICATIONS and PRODUCTS (SAP)
in Data Processing

as part of the UNDERSTANDING IT series of seminars with the theme,
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Engr. Michelle Ann Ramat
SPEAKER- SYSTEMS, APPLICATIONS, AND PRODUCTS
IN DATA PROCESSING



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COMPUTER ENGINEERING DEPARTMENT



Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Roman Angelo C. Tria

for having attended the seminar with the topic,

INFORMATION SECURITY

as part of the UNDERSTANDING IT series of seminars with the theme,

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COMPUTER ENGINEERING DEPARTMENT



Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Kevin Michael A. Cabrera

for having attended the seminar with the topic,

INFORMATION SECURITY

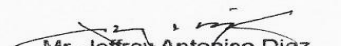
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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**



Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Norman David F. Delos Reyes

for having attended the seminar with the topic,
INFORMATION SECURITY

as part of the UNDERSTANDING IT series of seminars with the theme,
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COMPUTER ENGINEERING DEPARTMENT**



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College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Mark Kervin Z. Natividad

for having attended the seminar with the topic,
INFORMATION SECURITY

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Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Lutzer U. Reyes

for having attended the seminar with the topic,

INFORMATION SECURITY


as part of the UNDERSTANDING IT series of seminars with the theme,

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COMPUTER ENGINEERING DEPARTMENT



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This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Mary Ann V. Legarda

for having attended the seminar with the topic,

INFORMATION SECURITY

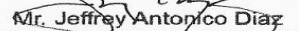
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COMPUTER ENGINEERING DEPARTMENT



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Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Julius S. Cansino

for having attended the seminar with the topic,

INFORMATION SECURITY

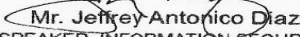
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Polytechnic University of the Philippines
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Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Orlando V. Pajabera

for having attended the seminar with the topic,

**SYSTEMS, APPLICATIONS and PRODUCTS (SAP)
in Data Processing**

as part of the UNDERSTANDING IT series of seminars with the theme,

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SPEAKER- SYSTEMS, APPLICATIONS, AND PRODUCTS
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This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Arlene B. Canlas

for having attended the seminar with the topic,
SYSTEMS, APPLICATIONS and PRODUCTS (SAP)
in Data Processing

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This

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Engr. Ronald D. Fernando

for having attended the seminar with the topic,
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COMPUTER ENGINEERING DEPARTMENT



Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Engr. Edcel B. Artificio

for having attended the seminar with the topic,

SYSTEMS, APPLICATIONS and PRODUCTS (SAP)
in Data Processing

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Polytechnic University of the Philippines
College of Engineering
Department of Computer Engineering

This

CERTIFICATE of PARTICIPATION

is hereby awarded to

Dr. Antonio Y. Velasco

for having attended the seminar with the topic,

INFORMATION SECURITY

as part of the UNDERSTANDING IT series of seminars with the theme,

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Mr. Jeffrey Antonico Diaz
SPEAKER, INFORMATION SECURITY



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POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING

Certificate Of
APPRECIATION

This certificate is awarded to

ENGR. JULIAN L. LORICO JR.

for being one of the
PANELISTS

in the Oral Defense of the Computer Engineering II - 3
Data Structures and Algorithm Analysis

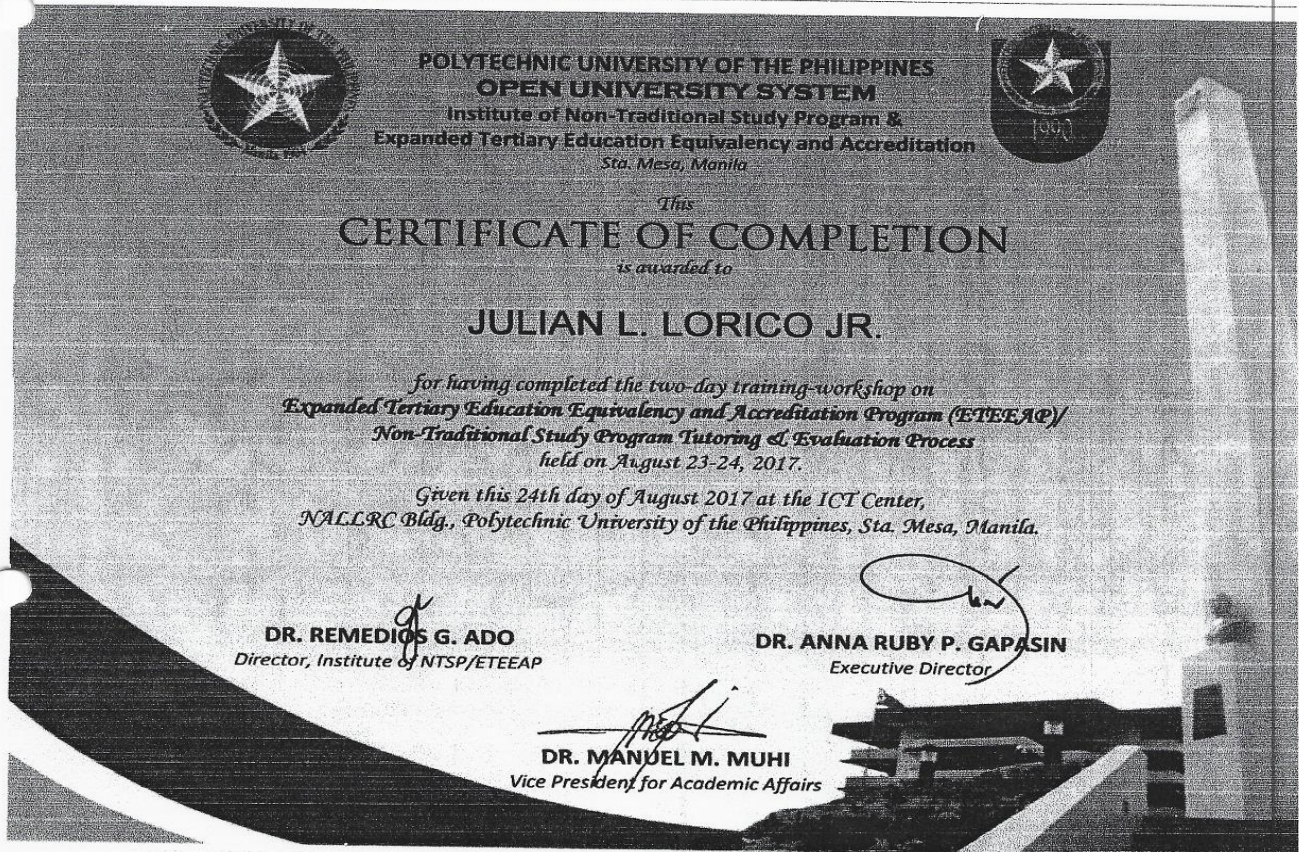
Given this 28th Day of March 2017,
at the Computer Engineering Department,
Polytechnic University of the Philippines, Sta. Mesa, Manila


Jhon Patrick L. Santiago
Class President, BSCPE 2-3


Engr. Edcel B. Artificio
Adviser, DSAA

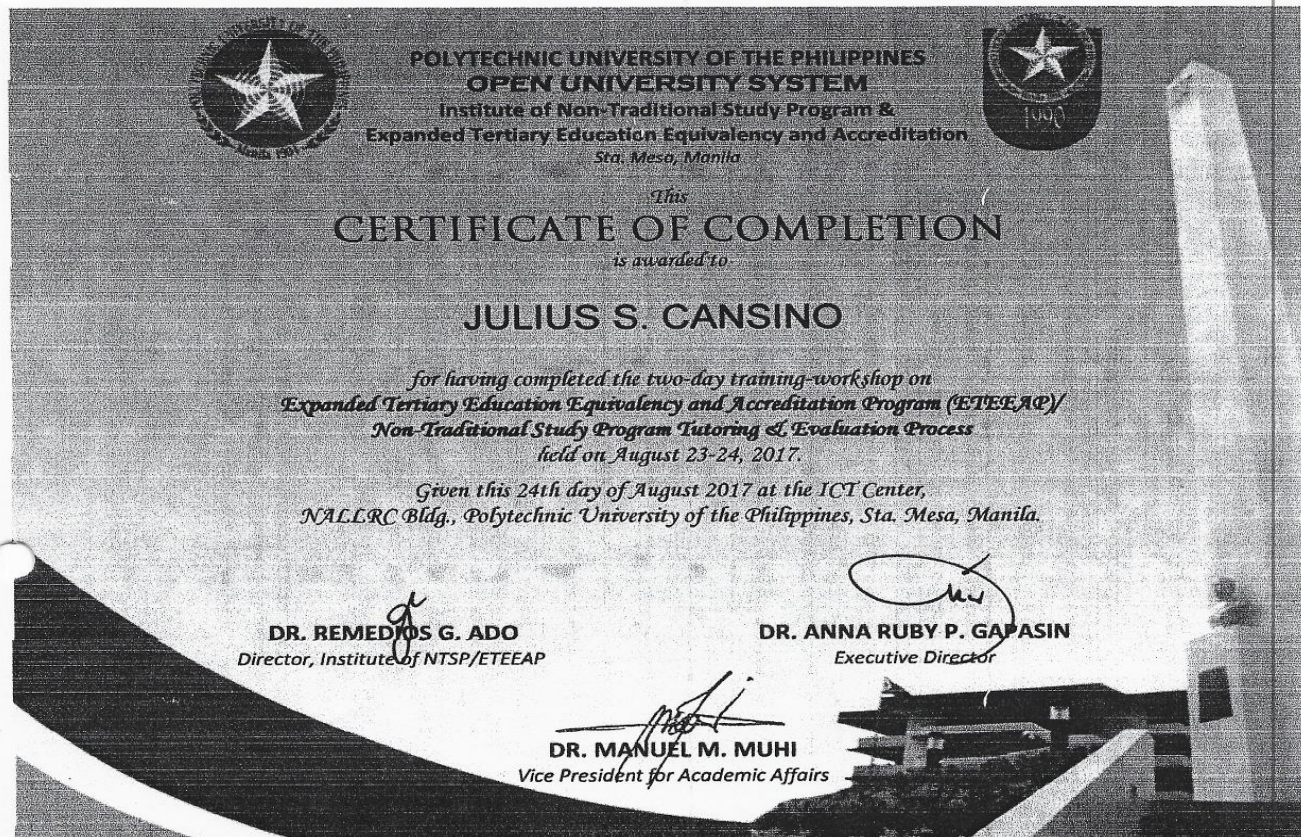


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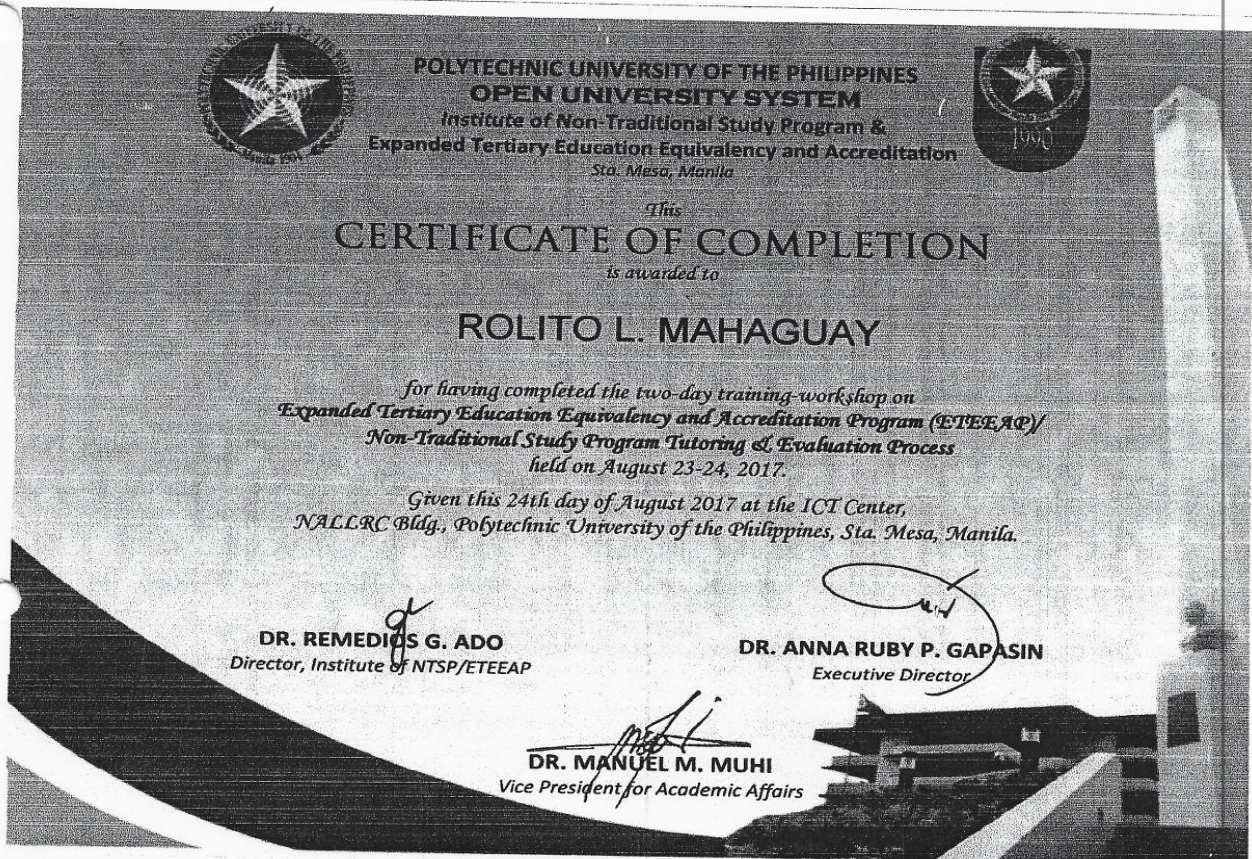


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OFFICE OF THE VICE PRESIDENT FOR ACADEMIC AFFAIRS
AND
OFFICE OF THE VICE PRESIDENT FOR RESEARCH, EXTENSION, AND DEVELOPMENT
Sta. Mesa, Manila

This
Certificate of Participation
is hereby given to

JULIUS S. CANSINO

for having actively participated in the Professorial Chair Lecture titled,
**CALCULATING IMPACTS FROM EARTHQUAKES, SEVERE
WIND, AND FLOOD HAZARDS.**

Given this 30th day of August 2017 at the Claro M. Recto Hall,
Polytechnic University of the Philippines, Mabini Campus, Sta. Mesa, Manila

JOSEPH MERCADO, DEM, D CRIM/PhD
Vice President for Research, Extension, and Development

MANUEL M. MUHI, D. TECH.
Vice President for Academic Affairs



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Sta. Mesa, Manila


This
Certificate of Participation

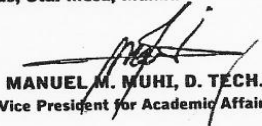
is hereby given to

FLORINDA H. OQUINDO

for having actively participated in the Professorial Chair Lecture titled,
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WIND, AND FLOOD HAZARDS.**

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AND
OFFICE OF THE VICE PRESIDENT FOR RESEARCH, EXTENSION, AND DEVELOPMENT
Sta. Mesa, Manila


This
Certificate of Participation


is hereby given to

ROLITO L. MAHAGUAY

for having actively participated in the Professorial Chair Lecture titled,
**CALCULATING IMPACTS FROM EARTHQUAKES, SEVERE
WIND, AND FLOOD HAZARDS.**

Given this 30th day of August 2017 at the Claro M. Recto Hall,
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JOSEPH MERCADO, DEM, D CRIM/PhD
Vice President for Research, Extension, and Development


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Sta. Mesa, Manila

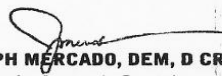
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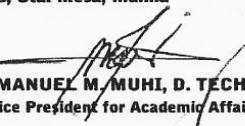
is hereby given to

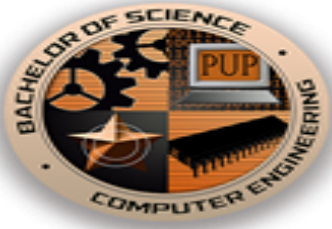
FERDINAND O. NATIVIDAD

for having actively participated in the Professorial Chair Lecture titled,
**CALCULATING IMPACTS FROM EARTHQUAKES, SEVERE
WIND, AND FLOOD HAZARDS.**

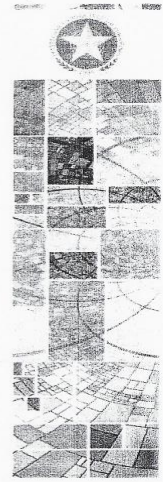
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JOSEPH MERCADO, DEM, D CRIM/PhD
Vice President for Research, Extension, and Development


MANUEL M. MUHI, D. TECH.
Vice President for Academic Affairs



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Office of the Vice President for Research, Extension and Development
RESEARCH MANAGEMENT OFFICE and EXTENSION MANAGEMENT OFFICE
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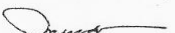
is hereby given to

JULIUS S. CANSINO

for having actively participated in the **Orientation on CHED Research and Extension Priorities** with the theme "Pathways to Equity, Relevance and Advancement in Research, Innovation and Extension in HEIs."

Given this September 7, 2017 at the at the Bulwagang Andres Bonifacio, NALLRC, Mabini Campus, Polytechnic University of the Philippines, Sta. Mesa, Manila

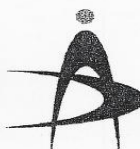

MACDON P. BERNARTE-BEM
AVP/Director, Research Management Office


JOSEPH MERCADO, Ph.D
Vice President for Research, Extension and Development





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polytechnic university of the philippines
mba

CERTIFICATE OF PARTICIPATION

is given to

Dr. Lutzer U. Reyes

in grateful acknowledgement of his/her participation in the
**International Conference on Global Business Sustainability:
"Responding to the Challenges of the 21st Century"**

organized by

PUP DBA739 Class of 1st Semester of AY 2017-2018

in collaboration with

**Polytechnic University of the Philippines Graduate School,
PUP DBA Society and PUP MBA Society**

Held on 15 October 2017 at Hotel Jen Manila, Pasay City,
Metro Manila, Philippines.

VELISSA RUBAYA-TOLIBAS, CPA, MBA
Conference Chair

GUILLERMO C. BUNGATO JR., PhD
PUP DBA & MBA Program Chair

CARMENCITA L. CASTOLO, DEM
Dean, PUP Graduate School

Supported and endorsed by:





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OFFICE OF THE VICE PRESIDENT FOR RESEARCH, EXTENSION AND DEVELOPMENT
COLLEGE OF ENGINEERING RESEARCH, EXTENSION
AND COMMUNITY INVOLVEMENT
AWARDS THIS

Certificate of Participation

TO

Dr. Lutzer U. Reyes

for having actively participated in the
COLLEGE OF ENGINEERING RESEARCH CAPABILITY TRAINING SEMINAR
conducted on November 25, 2017 with the theme "*Strengthening Researchers Capability towards
Promoting Technopreneurship and Technology Transfer Methodology In Pursuit of
Academic Excellence in the Digital Era*"

Given this 25th of November 2017 at the PUP College of Engineering
and Architecture Building, NDC Compound, Pureza St.
cor. Anonas St., Sta. Mesa, Manila.


ENGR. GUILLERMO O. BERNABE
Dean, College of Engineering


DR. MANUEL M. MUHI
Vice President for Academic Affairs





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



This

CERTIFICATE OF ATTENDANCE

is given to

Lutzer Reyes

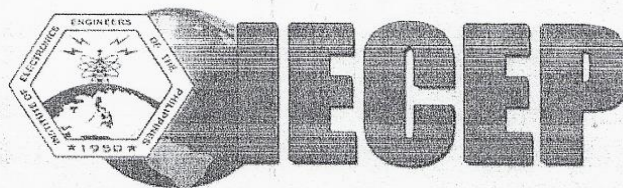
for actively participating and sharing his/her valuable time in attending the App Innovation Day.

Given this 24th day of November at Microsoft Philippines, 6750 Bldg. Ayala Avenue Makati City, Philippines.

HERNS HERMIDA
Cloud and Enterprise
Business Group Lead
Microsoft Philippines



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
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Institute of Electronics Engineers of the Philippines, Inc.

The Integrated Accredited Professional Organization of Professional Electronics Engineers, Electronics Engineers and Electronics Technicians
by the Professional Regulations Commission, Republic of the Philippines (I-APO No.:03) CPD Provider Accreditation No.:2009-001

presents this

Certificate of Attendance

to

JOHN R. DELA CRUZ

Credited with 20.0 CPD points

for having attended the

IECEP 67TH AGM & NATIONAL CONVENTION

held at Subic Bay Freeport Zone on November 23 - 25, 2017

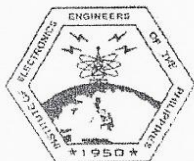
SEMINARS ATTENDED:

- BIOMED Trends & Initiatives: Road to Global Competitiveness
- Closing Program
- Database Security: An IT Security Priority & Technological Importance
- DICT Hour
- Electronics Engineering Updates
- Fiber Infrastructure Deployment: Delivering High Speed Optical Links for Data Center
- GUEST OF HONOR
- OPENING PROGRAM
- Power Electronics: Whats Going On?
- Railway Technology: Rail Signaling & Communication Systems
- Road to 5G Convergence- A Network Readiness Perspective
- SMART SWEEP Schools Program
- The Future of Broadcast Technology: Leveraging Change & Innovations
- The Power of Mapping: Breakthrough in Geographic Information Systems
- What Drives the Automotive Industry: Current and Future Trends in Automotive Electronics



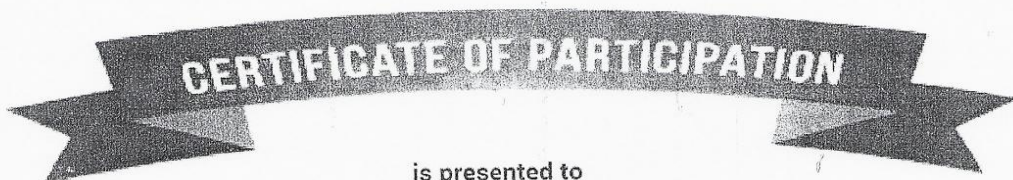


POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
 COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



INSTITUTE OF ELECTRONICS ENGINEERS
 OF THE PHILIPPINES
 QUEZON CITY CHAPTER

Accreditation No. 20



is presented to

Mark Kerwin Lenarosa Natividad

for attending the

8TH ANNUAL GENERAL MEMBERSHIP MEETING & CONVENTION
"Electronics Engineers Securing Critical Infostructure & the Cyberspace"

17-18 November 2017

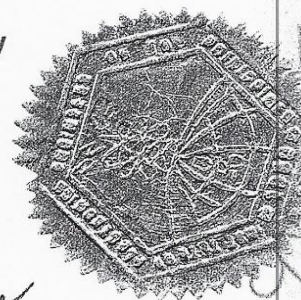
TOPICS:

Cybersecurity
 Technopreneurship

DTTB Single Frequency Network
 Conditional Access System

Given this 18th day of November 2017
 at The Elements @ Eton Centris, Quezon City

CREDITED WITH 16 CPD POINTS



[Signature]
 JOSEPH M. REBOLLEDO, PECE
 Convention Chairman

[Signature]
 JOVITA V. CHONGCO, PECE
 Governor

This certificate is not valid without the official IECEP seal



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Certificate No.: SAS-ATO/ITIL@F/ 20171592

Certificate of Completion

is hereby granted to:

Ma. Leona Khan

for successful course completion on

November 6-10, 2017.

at

35th Floor Discovery Centre, Pasig City

Philippines

And earned Twenty One (21) PDUs/Contact Hours

for

ITIL® 2011 Foundation

Course Director

Mary Rose Chua-Rawat

SAS Management Inc.

Spartan Business Consulting and Training Services | Licensed Affiliate – APMG
Accredited Training Organization – PeopleCert

Main Office: SAS Management Inc.
Unit 1602 Citiland 10 Tower 2, H.V. Dela Costa
Street corner Ayala Avenue, Makati City

Branch Office: SAS Management Inc.
Unit 2604, Raffles Corporate Center,
F. Ortigas Jr. Road, Ortigas Center, Pasig

Office No: +632.949.3004, +632.654.5951 | Website: www.saservices.com.ph

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COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT




CERTIFICATE OF COMPLETION

This is to certify that

Lutger U. Reyes

has completed the iQueue-QMS (Intelligent Queue Management System) Training
on October 3, 2017
held at LBC SM Mall of Asia SP110-111 Branch South Parking Building, Mall of Asia, Pasay City 1300 Philippines.

Given this 30th Day of October Twenty Seventeen at
Unit 305, PMHA Building 4 East Avenue corner V. Luna Quezon City 0840 Philippines.


POLLY L. ILILO
Managing Director


MARVIN M. AYENDE
Director



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
Office of the Vice President for Research, Extension and Development
Intellectual Property and Management Office
Innovation and Technology Support Office



This

CERTIFICATE OF COMPLETION

is hereby given to

Julian L. Lorico, Jr.

for having successfully drafted a patent application and completed 40 hour
Training Workshop on Preparing Patent Application titled
"IP AWARENESS AND CAPABILITY BUILDING ACTIVITY" held on
October 23-27, 2017 at the ICTC Lab 1, Phase 1, Nino Aquino
Library and Learning Resource Center.

Given this 27th day of October 2017 at Polytechnic University of the
Philippines Mabini Campus, Sta. Mesa, Manila

PROF. JACKIE B. URRUTIA

Director, IPMO

DR. JOSEPH MERCADO

Vice President for Research, Extension and Development

DR. EMANUEL C. DE GUZMAN

President



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Republic of the Philippines
POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
Office of the Vice President for Research, Extension and Development
Intellectual Property and Management Office
Innovation and Technology Support Office



This

CERTIFICATE OF PARTICIPATION

is hereby given to

Julian L. Lorico Jr.

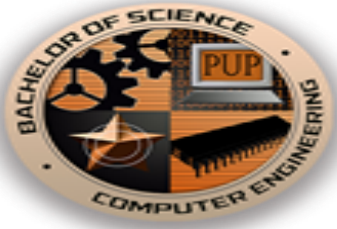
for having participated in the
Training Workshop on Preparing Patent Application titled
"IP AWARENESS AND CAPABILITY BUILDING ACTIVITY"
held on October 23-27, 2017 at the TCTC Lab 1, Philippine Ninoy Aquino Library
and Learning Resource Center.

Given this 27th day of October 2017 at Polytechnic University of the
Philippines Mabini Campus, Sta. Mesa, Manila

PROF. JACKIE D. URRUTIA
Director, IPMO

DR. JOSEPH MERCADO
Vice President for Research, Extension and Development

DR. EMANUEL C. DE GUZMAN
President



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



Certificate of Completion

This document recognizes that

Ma. Leona S. Khan

of

TELUS International Philippines, Inc.

Has successfully completed the course entitled

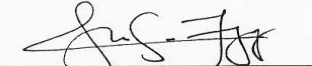
SQL

Phoenix One Knowledge Solutions Inc.

October 19 – 20, 2017

Makati City


MARILOU C. JOPILLO
Director


RENATO SERA JOSEP JR.
Resource Speaker



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

Certificate of Attendance



This certificate is presented to

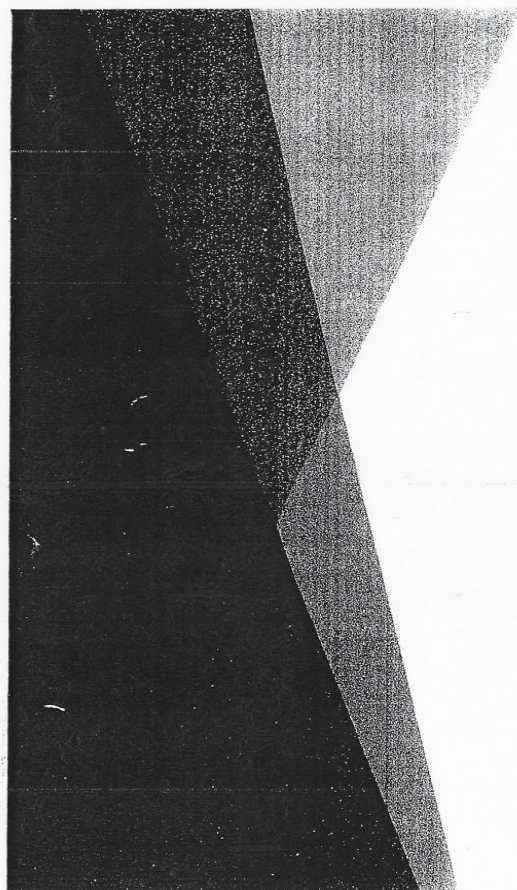
Lutzer U. Reyes

for being part of our event, "Join the Cloud Revolution"
held at Discovery Primea, Makati City on October 12, 2017.

Lara Marga S. Lad
Product Manager, First Datacorp



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



APPLE AUTHORIZED
TRAINING PROVIDER



CERTIFICATE OF ATTENDANCE

THIS IS TO CERTIFY THAT

ARVIN ROXAS DE LA CRUZ


SUCCESSFULLY ATTENDED

LET'S CODE

1-day workshop on Fundamentals of iOS App Development

GIVEN THIS **22ND OF SEPTEMBER 2017**

HELD AT **2L CEDAR EXECUTIVE BLDG. 1, 1006 ARNAIZ AVENUE, MAKATI CITY**


TRINNA ROSE REYES
Assistant Supervisor,
Apple Authorized Training Provider
Power Mac Center





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
 COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



**POWER ROBOTICS SKILLS
 COMPETITION**



Certificate of Participation

to

Dr. Arvin Dela Cruz

of Polytechnic University of the Philippines
 as "Coach" for
POWER ROBOTICS SKILLS COMPETITION

Given this 22th day of September in the year of two
 thousand and seventeen in Pasay City.



[Signature]

Engr. Augusto C. Soliman



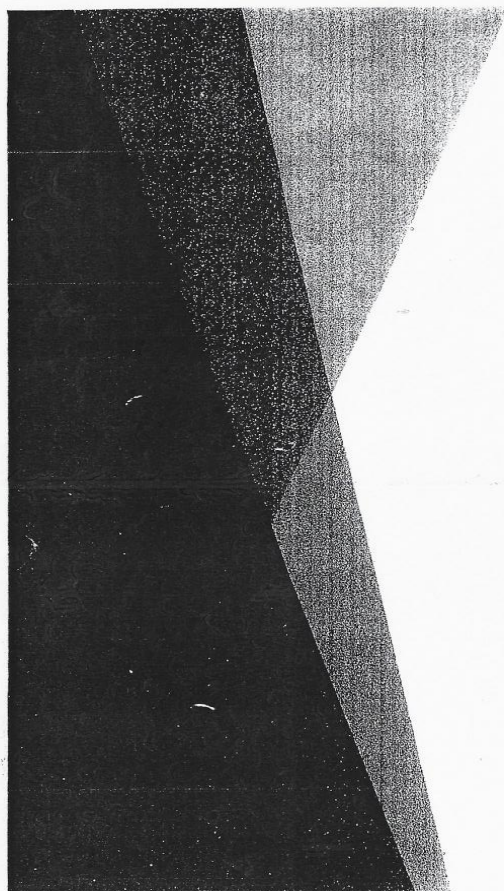
[Signature]

Engr. Ricky V. Bustamante





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



APPLE AUTHORIZED
TRAINING PROVIDER



CERTIFICATE OF ATTENDANCE

THIS IS TO CERTIFY THAT

ARVIN ROXAS DE LA CRUZ

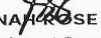
SUCCESSFULLY ATTENDED

LET'S CODE

1-day workshop on Fundamentals of iOS App Development

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HELD AT 2L CEDAR EXECUTIVE BLDG. 1, 1006 ARNAIZ AVENUE, MAKATI CITY


TRINNA ROSE REYES
Assistant Supervisor,
Apple Authorized Training Provider
Power Mac Center





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



**POWER ROBOTICS SKILLS
COMPETITION**



Certificate of Participation

to

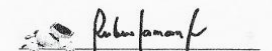
Engr. Julius Cansino

of Polytechnic University of the Philippines
as "Coach" for
POWER ROBOTICS SKILLS COMPETITION

Given this 22th day of September in the year of two
thousand and seventeen in Pasay City.




Engr. Augusto C. Soliman


Engr. Ricky V. Burtamonte

Coaching Certificate issued by the Organizer on the recently concluded Power Robotics Skill Competition



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES

Office of the Graduate Programs & External Studies

presents this

CERTIFICATE OF APPRECIATION

to

Lutzer U. Reyes

for his active involvement and dedicated service as

FACILITATOR

in the seminar entitled

3Is4R 2017

*with the theme: "Interdisciplinary Forum for Enhancing Students'
Critical Thinking in Managing Technology."*

*Given this 30th day of September in the year of our Lord, Two Thousand Seventeen
at the Santo Cristo del Tesoro Auditorium, Santa Isabel College of Manila.*

MELITO A. BACCAY, D. Eng.
Director, Graduate Programs & External Studies

ROMEO S. EBONITE, Ed. D.
Dean, College of Industrial Education



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT




Certificate of Appreciation

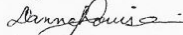
This certificate is awarded to:

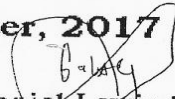
Dr. Arvin De La Cruz

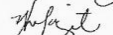
Thank you for being a truly supportive Adviser.
You believed in us. Your standards were so high for us. You brought out the very best in us. We will always be grateful for all the hard work and dedication you have given to make us who we are today.

Given this 20th day of September, 2017


Wilgefortiz P. Catchillar


Dannah Louise L. Gabuni


Nathaniel Lewis Galang


Adrienne Paule M. Langit



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



award this

CERTIFICATE OF APPRECIATION

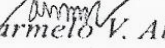
to

Dr. Arvin R. De La Cruz

*for sharing his knowledge as a Resource speaker in the seminar
entitled*

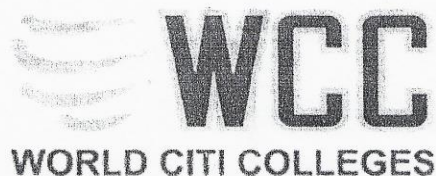
“Data Privacy Act”

*Given this 20th day of September 2017 at the
World Citi Colleges, Quezon City.*


Dr. Marmelo V. Abante
Dean, College of IT Education



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



award this

CERTIFICATE OF APPRECIATION

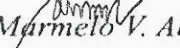
to

Dr. Arvin R. De La Cruz

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POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING

CERTIFICATE OF APPRECIATION


is awarded to

Dr. Arvin R. De La Cruz

for sharing his knowledge as a resource speaker in

“Learning Management System”

Given this 19th day of August 2017 at College of Engineering Room 312.

ENGR.  JULIUS S. CANSINO
CHAIRPERSON, CPE Department



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



PHILIPPINE SOCIETY FOR QUALITY, INC.

CERTIFICATE OF PARTICIPATION


THIS CERTIFICATE IS AWARDED TO


Dr. Lutzer U. Reyes

FOR HAVING ACTIVELY PARTICIPATED IN THE

"General Membership Meeting"
Integrating Standard Operating Procedures into Efficient Processes:
Designing an Effective Daily Management System

HELD ON JULY 25, 2017 AT CROWNE PLAZA GALLERIA MANILA
GIVEN THIS TWENTY-FIFTH DAY OF JULY, YEAR TWO THOUSAND AND
SEVENTEEN IN QUEZON CITY, PHILIPPINES


CORAZON C. TAN
PRESIDENT


WARREN M. ENTERIA
CHAIRMAN, COMMUNITY
AFFAIRS COMMITTEE



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

TECHONOMY
2017 | Framing the Role of
Technology in Economics

PRESENTED BY



Windows 10 Pro


This Certifies that

JULIUS CANSINO

**attended Techonomy 2017:
Framing the Role of Technology in Economics**

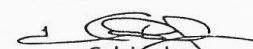
on July 7, 2017 at the Maybank Performing Arts Theater
Bonifacio Global City, Taguig, Philippines.

Sec. Rodolfo Salalima
DICT


Manuel Wong
Acer Philippines


Roger Wu
BYOC Smart Products


David Tapang
Microsoft Philippines


Galvin Jgo
Woohoo Learning Lab


Carlo Ople
PLDT Enterprise

(02) 8713 5968 | dcoe_chair@gmail.com
RM322 CEA BLDG. NDC COMPOUND,
ANONAS COR. PUREZA STREETS, STA. MESA, MANILA





**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**



HUMIL INTERNATIONAL CORPORATION

Awards this

Certificate of Training

to

ARVIN R. DE LA CRUZ

for his attendance to the 8-hour training in the use of

**DIGITAL LOGIC CIRCUIT
SIMTEL SOFTWARE
OSCILLOSCOPE**

*Conducted on June 02, 2017 at the
Polytechnic University of the Philippines
Santa Mesa, Manila, Philippines*


DOLORES NOZUELO-BONGAT
VP for Admin and Finance


ENGR. REGGIE C. GUSTILO
Technical-Trainer / Consultant

*Proverbs 22:4
"By humility and fear of the Lord bring wealth, honor and life."*

(02) 8713 5968 | dcoe_chair@gmail.com
RM322 CEA BLDG. NDC COMPOUND,
ANONAS COR. PUREZA STREETS, STA. MESA, MANILA





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



CERTIFICATE OF ATTENDANCE

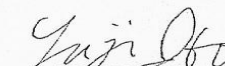
is hereby granted to:

MARK KERVIN Z. NATIVIDAD

who has undergone technical training on
"Panasonic Hybrid IP PABX – KX-HTS824"
Held on the 22nd day of March, 2017 from 9:00 am – 5:00 pm
at Avesco Marketing Corporation, 810 Aurora Blvd. Cor. Yale Cubao, Quezon City.


KAREN DAYRIT
PABX Product In-Charge


ERNESTO DELA CRUZ JR.
Product Marketing Group Manager


ITOU YUUJI
Marketing – Panasonic Phils.


RODELL R. DELUTE
System Engr. – Panasonic Phils.



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT



The Department of Trade and Industry &
Philippine Quality Award Foundation, Inc.

Award this

Certificate of Completion

to

ARVIN R. DE LA CRUZ

for successfully completing the
**Philippine Quality Award
Assessors Preparatory Course**

held on March 20-24, 2017 at the
Subic Bay Venezia Hotel, Olongapo, Zambales


VIRGILIO P. FULGENCIO
Executive Director
Head, PQA Implementing Agency



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES

The Only Recognized Accredited Professional Organization of the Professional Electronics Engineers, Electronics Engineers and Electronics Technicians by the Professional Regulations Commission of the Republic of the Philippines I – APO No. 03

IECEP-Manila Chapter

Awards this

Certificate of Attendance

to

Engr. Mark Kervin Z. Natividad

for actively participating in the

Technical Seminar

Given this 25th day of February 2017 at the
Hotel Kimberly, 770 Pedro Gil St., Malate Manila

“Structured Cabling
Workshop”

Engr. Jess Anthony D. Liwanag

“Data Center Connectivity
Infrastructure”

Engr. Dominic A. Marquez

Credited with 8 CPD units


Alejandro H. Ballado Jr., PECE


Oliver R. Mariano, PECE



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

CREATE.
COLLABORATE.
COMMERCIALIZE.

PSITE

PHILIPPINE SOCIETY OF INFORMATION TECHNOLOGY EDUCATORS FOUNDATION, INC.

awards this

CERTIFICATE OF PARTICIPATION

to

ARVIN R. DE LA CRUZ

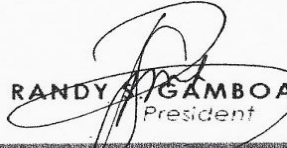
for having been the PARTICIPANT in the

**19th PSITE
NATIONAL CONVENTION**

February 23 - 25, 2017

Given this 25th day of February
in the year of our Lord Two Thousand Seventeen
at Tamaraw Beach Resort & Hotel, Puerto Galera,
Oriental Mindoro




RANDY S. GAMBOA Ph.D.
President


MARMELO V. ABANTE, Ph.D.
Convention Chair

(02) 8713 5968 | dcoe_chair@gmail.com
RM322 CEA BLDG. NDC COMPOUND,
ANONAS COR. PUREZA STREETS, STA. MESA, MANILA





POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

PEI 700

1.7. The Faculty Development Program is implemented with the following provisions:

1.7.6. conducting research activities related to the program;

Documents attached:

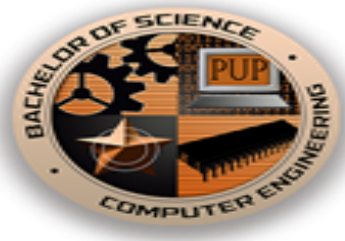
- LIST OF FACULTY WHO HAVE CONDUCTED AND/OR ARE CONDUCTING RESEARCH/ES RELEVANT TO THE PROGRAM
- RESEARCH PRESENTAION
- RESEARCH PUBLICATION



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**

List of Faculty who have conducted and/or are conducting research/es relevant to the Program

Name of Faculty	Title of Research	Duration of Implementation	Funding Source	Status (On-Going/Completed)
Cansino, Julius De La Cruz, Arvin R. Tenerife Jr., Pedrito M.	Impact Assessment of the Computer Engineering Learning Management System Evaluation	2019 - 2020	Personal	On-Going
Ado, Remedios G. Cansino, Julius S. Mahaguay, Rolito L. Tenerife, Pedrito Jr. M.	Industry Perception on the Computer Engineering Graduates of the Polytechnic University of the Philippines	2019 - 2020	Personal	On-Going
De La Cruz, Arvin R. Tenerife Jr., Pedrito M.	Design and Development of Banana Fiber Decorticator with Wringer	2018 – 2019	Personal	Completed
De La Cruz, Arvin R.	Optical Character Reader of a Braille Unicode System for the Blind	2018 – 2019	Personal	Completed
De La Cruz, Arvin R.	E-Teaching Assistance Management System (ETAMS) with Educator Stress Determination for K*12, Tertiary, Graduate School and Distance Education	2018 – 2019	Personal	Completed
De La Cruz, Arvin R.	Optical Character Reader for the Blind	2018 – 2019	Personal	Completed
De La Cruz, Arvin R. Tenerife Jr., Pedrito M.	Image-Based Microalgae Cell Identifier and Counter	2018 – 2019	Personal	Completed
Ado, Remedios G. Mahaguay, Rolito L.	Development of e-Bag Wireless Charger for Gadgets	2017 – 2018	Personal	Completed
De La Cruz, Arvin R. Tenerife Jr., Pedrito M.	Design and Development of a Hybrid Photobioreactor for Biomass Production of Spirulina Platensis Species	2017 – 2018	Personal	Completed
Tenerife Jr., Pedrito M. Tubola, Orland D.	The Development of a Hybrid Renewable Energy: Powered Light Bouy System Harnessing Sea Energy Potentials	2017 – 2018	Personal	Completed
Cansino, Julius S. Tenerife Jr., Pedrito M. Fernando, Ronald D. Mahaguay, Rolito L.	College of Engineering Online Class Record	2017 – 2018	Personal	Completed



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**

Natividad, Ferdinand O. Oquindo, Florinda H.				
Dela Cruz, John R.	Design of a Fuzzy-based Automated Organic Irrigation system for Smart Farm	2016 – 2017	Personal	Completed
Dela Cruz, John R.	Fuzzy-based Decision Support for Smart Farm Water Tank Monitoring	2016 – 2017	Personal	Completed
Tubola, Orland D.	Lung Disease Identification and Classification through Neural Networks	2015 – 2016	Grant in Aid (PUP)	Completed
Remedios G. Ado	Evaluation of SMART Wireless Engineering Education Program (SWEEP): Basis for a Proposed Integrated Model of Collaboration Between Industry and Academe	2014 – 2015	Personal	Completed
Ferdinand O. Natividad	Computer Engineering Laboratory Equipment Reservation and Monitoring System with Mobile Application	2014 – 2015	Personal	Completed
Remedios G. Ado	Engineering Academe Industry Partnership Towards Learning Exploration	2014 – 2015	Personal	Completed
Remedios G. Ado	Mobile Emergency Response Application Using Geolocation for Command Center	2013 - 2014	Personal	Completed
Natividad, Ferdinand O.	Enhanced Voiced Based Cane For The Blind With Anti-Lost Feature For The Resources Of The Blind Inc.	2012-2013	Personal	Completed
Oquimdo, Florinda H.	Groundwater Treatment using Bio-sand Filter in Sitio Centro Brgy. Cogunan Nasugbu, Batangas	2012-2013	Personal	Completed

Prepared by

Pedrito M. Tenerife Jr.



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

Research Presentation



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**

Faculty Research Presentation

Name of Researcher	Title of Research	Title of Awards Received/ Publisher / Conferences Organizer / Conferring Body	Pls. check (✓) if Disseminated or Presented in				Title of For a / Conference	Place of For a	Date of For a
			International	National	Regional	Local			
De La Cruz, Arvin R. Tenerife, Pedrito Jr. M.	Design and Development of Banana Fiber Decorticator with Wringer		✓				19 th World Conference on Applied Science, Engineering and Technology	Bangkok, Thailand	5/15/2019 to 5/16/2019
De La Cruz, Arvin R.	Optical Character Reader of a Braille Unicode System for the Blind	Best Research Paper	✓				19 th World Conference on Applied Science, Engineering and Technology	Bangkok, Thailand	5/15/2019 to 5/16/2019
De La Cruz, Arvin R.	E-Teaching Assistance Management System (ETAMS) with Educator Stress Determination for K*12, Tertiary, Graduate School and Distance Education		✓				3 rd UCPE International Conference on Digital Learning and the 21 st Century Classroom	CDC Hotel, Tagaytay City	4/22/2019 to 4/24/2019
De La Cruz, Arvin R.	Optical Character Reader for the Blind		✓				3 rd UCPE International Conference on Digital Learning and the 21 st Century Classroom	CDC Hotel, Tagaytay City	4/22/2019 to 4/24/2019
De La Cruz, Arvin R. Tenerife, Pedrito Jr. M.	Image-Based Microalgae Cell Identifier and Counter	2018 ICPEP National Conference on Computer Applications, Innovations, Technologies and Engineering (CAITE 2018)		✓			6 th ICPEP National Convention "Enhancing Computer Engineers' Capability Towards 4 th Industrial Revolution and Technology Business Incubation"	Hotel Supreme Convention Plaza, Baguio City	11/26/2018 to 11/29/2018
Ado, Remedios G. Mahaguay, Rolito L.	Development of e-Bag Wireless Charger for Gadgets	International Institute of Research and Journals (IIRAJ) and Institute of Research and Publication (IRP)	✓				2 nd International Conference on Innovative Research in Science, Technology and Management (ICIRSTM-18)	National University of Singapore	9/29/2018 to 9/30/2018



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	System with Mobile Application								
Tenerife, Pedrito Jr. M.	Meat Griller	Royal Institution's Singapore	✓				Royal Institution's 6 th Global Congress and Conferment Ceremony	Alcuaz Hall 1 and 2, 3 rd Floor, Manila Pavilion Hotel	12/12/2015
Ado, Remedios G.	Engineering Academe Industry Partnership Towards Learning Exploration					✓	Engineering Research Colloquium 2015	CEA AVR	11/25/2015
Ado, Remedios G.	Mobile Emergency Response Application Using Geolocation for Command Center	Excellence Presentation	✓				2014 International Conference on Information Security and Artificial Intelligence	Hanoi, Vietnam	2/27/2014 to 2/28/2014
Tenerife, Pedrito Jr. M.	Obstacle Avoidance Glove for the Resources for the Blind Incorporated			✓			Computer Research and Engineering Symposium "ICT APPS: The power to synergize in keeping the world flat"	Claro M Recto Hall PUP	1/30/2014
Mahaguay, Rolito L.	Text Controlled Pet Feeder			✓			3 rd Annual Research Awards	Bulwagang Balagtas Ninoy Aquino Library Learning Resource Center	3/5/2010

Prepared by:


Pedrito M. Tenerife Jr.



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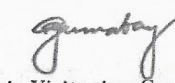


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This is to certify that **ARVIN ROXAS DE LA CRUZ**
 of Polytechnic University of the Philippines, Philippines presented his/her
 research paper titled *Optical Character Reader of a Braille Unicode System for the Blind*
 at "19th World Conference on
 Applied Science, Engineering and Technology (WCASET-2019)" held on 16th - 17th May 2019 at Bangkok.


Dr. Singam Jayanthu
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 Department of Mining Engg.
 National Institute of Technology, India




Maria Visitacion Gumabay
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 School of Information Technology and Engg.
 St. Paul University Philippines
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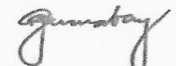


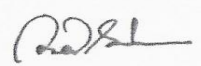
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on **E-Teaching Assistance Management System (ETAMS) with Educator Stress**
Determination for K-12, Tertiary, Graduate School and Distance Education. Presented on the occasion of
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21st Century Classroom on April 22-24, 2019 held at CDC Hotel, Tagaytay Country Homes 3, Tagaytay City.

Given this 24th day of April 2019 at CDC Hotel, Tagaytay Country Homes 3, Tagaytay City.


Dr. JANET C. PASCUAL
President



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**E-Teaching Assistance Management System (ETAMS) with
Educator Stress Determination for K-12, Tertiary, Graduate
School and Distance Education**

Arvin R. De La Cruz

*Faculty, Department of Computer Engineering, College of Engineering
Polytechnic University of the Philippines, Sta. Mesa, Manila*

ABSTRACT

The purpose of this paper is to describe and introduce ETAMS on the K-12, tertiary, graduate school, and distance education in different institutions, colleges and universities in the Philippines. The study is about the development, deployment and assessment of an E-Learning tool called ETAMS, suited for K-12, tertiary, graduate school, and distance education as an additional teaching tool for educators. The main objective of the study is to assess the overall impact of ETAMS with all its features in terms of functionality, content and the level of acceptance in K-12, tertiary, graduate school, and distance education. The descriptive research method is used, as it describes the nature of the situation as it exists at the time of the study. The E-Learning tool undergoes a series of testing and different assessments utilizing innovative assessment mechanism as well as data mining approach.

Keywords

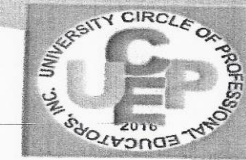
ETAMS, E-Learning, Stress, Moodle, Educators, and Stress Determination.



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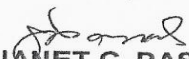
CERTIFICATE of APPRECIATION
to

ARVIN DE LA CRUZ, Ph.D.

for exemplary performance as **PAPER PRESENTER**

on **OPTICAL CHARACTER READER OF A BRAILLE UNICODE SYSTEM FOR THE BLIND** presented on the
occasion of the 3rd UCPE International Conference on Digital Learning and the
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Given this 24th day of April 2019 at CDC Hotel, Tagaytay Country Homes 3, Tagaytay City.


Dr. JANET C. PASCUAL
President



Optical Character Reader of a Braille Unicode System for the Blind

Arvin R. De La Cruz, Reginald D. Legaspi, Zildjian L. Mergilla, & Marc Oliver P. Otawa

Polytechnic University of the Philippines, Sta. Mesa, Manila

ABSTRACT

This study aspires to innovate the Braille system by applying the fast-paced technological advancements of the world to it. Braille is a code – a system of dots that represents the letters of the alphabet and that visually impaired individuals can use to read independently. As Braille Technology is fast-growing, more and more people with visual impairment cannot afford to buy one. Thus, the proponents created a prototype, a portable and a lot cheaper Braille device that will help individuals and institutions with their reading challenges. The proponents created a Braille display that comes up with a scanner that will scan physical text documents, then process it to become an output as Braille cells. It also comes up with a text-to-speech conversion which will become an option for the involved person on what will visually impaired individuals choose as an output. This is made possible by Optical Character Recognition (OCR) technology that the proponents used in Raspberry Pi. The OCR is responsible for the image processing that will convert the image captured into a text file. The text file will then be processed again to send a signal to the servo motor that is responsible for pushing the Braille cells needed. The device also includes a motor guide for correct scanning of the physical text documents. The device will perform the task quickly that will surely help visually impaired individuals to easily read reading materials. This system is conducted to provide another solution on problems about reading for blind and visually impaired individuals and to provide a cheaper device for them. It will contribute not only to the community involved but also in the technological industry in the Philippines.

Keywords

braille, optical character recognition, raspberry pi, Braille, Unicode System, Optical Character Reader



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PEI 7.7

I.7. The Faculty Development Program is implemented with the following provisions:

I.7.7. publishing scholarly articles and research outputs; and

Documents attached:

- FACULTY RESEARCH PUBLICATION



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Mobile Emergency Response Application Using Geolocation for Command Centers

Jethro B. de Guzman, Ritz Carlo C. de Guzman, and Engr. Remedios G. Ado

Abstract—This paper introduces Mobile Emergency Response Application using Geolocation for Command Centers. It is a combination of a mobile and web application for responding to emergency requests for ambulance, fire truck and police by people in a certain area or city. The mobile application would detect user's current location through geolocation and sends to the web application deployed in a command center the name, age, mobile number and location of the user for easily dispatching of emergency units.

Index Terms—Command center, emergency response, geolocation.

I. INTRODUCTION

The actions and responses taken in the initial minutes of an emergency are critical. These life threatening events may happen any moment. Being always prepared and ready can save lives. A call for help to public emergency services that provides full and accurate information will help the dispatcher send the right responders and equipment.

Environmental emergencies are incidents or events that threaten public safety, health, and welfare and include hurricanes, floods, wildfires, industrial plant explosions, chemical spills, acts of terrorism, and others [1]. Emergency response is the organizing, coordinating, and directing of available resources in order to respond to the event and bring the emergency under control. The goal of this coordinated response is to protect public health by minimizing the impact of the event on the community and the environment.

One of the most popular and well known emergency systems in the world is America's 911. The system was designed to provide a universal, easy-to-remember number for people to reach police, fire or emergency medical assistance from any phone in any location, without having to look up specific phone numbers [2]. The technology, regulations and funding that make the system possible are largely based on the technology that existed at the time 911 was first implemented during the late 1960s –i.e., wired phones in residences and businesses.

The Philippines created its version of 911 called PATROL 117. Patrol 117 is the national and official emergency hotline number of the Philippines [3]. It aims to establish an easy recall number that can be accessed by anyone, anytime, anywhere in the Philippines in cases of emergencies, as well as to monitor the efficiency of its responders' network. It however, does not compete with other locally established emergency numbers or with local

responders, but complements their local operations.

There are also a number of mobile applications available in smart phones that are beneficial in disaster response [4]. Among these are GPS technology, which can be used in the tracking of rescuers and resources, the translator, which can be used for communication, and the field examiner, which can be used to send information to headquarters for assessment of damages. Indeed, the use of a smart phone in a disaster management system is advantageous.

Command Centers handle certain communities. The release of a smart phone app increases the participation and preparation of the community in certain disasters. Ref. [5] Community-based disaster risk management is a process in which at-risk communities are actively engaged in the identification, analysis, treatment, monitoring and evaluation of disaster risks in order to reduce their vulnerabilities and enhance their capacities. Ref. [6] internationally, the trend continues to build capacity in government disaster management capabilities and functions in developing nations and to promote community-based hazard mitigation planning and programs.

The use of new technologies like smart phones and web application play a big role in improving emergency system. Mobile devices have become increasingly important in the developing world, facilitating communication between locals, government officials and first responders [7]. Many applications provide important information in areas of health, agriculture, disaster relief, and crime.

The mass communications media not only quickly notifies the world of disastrous events, but many times their versions are greatly dramatized, if not distorted. In addition, news reports usually do not give specific information about the exact location of a disaster, or details to indicate who has or has not been involved. But with the use of geolocation, the location is plotted on the map and user's information will be sent to the command center [8].

Many of the emergency systems exists are landline-based. With the fast development in technology, especially the emergence of smartphones where almost many people hand carries these devices; we propose a system that would give people an alternative and added option or medium in calling for rescue. Providing the people a mobile application to be installed on their smart phones to send emergency requests and a web application to be deployed on command centers to receive and locate the mobile app users, this might be useful for easy and fast dispatching of emergency units.

II. PROPOSED SYSTEM

A. Technologies Involved

The core concept of the researchers focuses on a mobile

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and a web application. Our major goal is to provide information such as name, age, type of emergency response needed and location of a person using the mobile app and to be retrieved by a system on the web and plotting the equivalent latitude and longitude on a Google map in order to pinpoint the exact location of the person who uses the mobile app. To achieve it, the researchers also studied an extensive array of technologies focusing on computer engineering field.

For the mobile application, the researchers plan to use Phonegap instead of a native android language in order to maximize the user interface and to make it flexible and easy for other mobile platforms to adopt. Phonegap is a free and open source framework that allows you to create mobile apps using standardized web APIs for different mobile platforms. Basically it uses HTML, CSS and JavaScript, and wraps it with phonegap then deploy to different mobile operating systems like Android, iOS, Windows, Windows 8, Tizen, Blackberry, Blackberry 10.

QuoJS will be used as the main JavaScript Library for the mobile application. It is a micro, modular, Object-Oriented and concise JavaScript Library that simplifies HTML document traversing, event handling, and Ajax interactions for rapid mobile web development. It allows writing powerful, flexible and cross-browser code with its elegant, well documented and micro coherent API.

For getting the user's location, it requires to have a stable internet connection and an enabled GPS for more accurate reading of latitude and longitude points. Google Maps JavaScript API will be used to read user's geolocation. Reverse geocoding will also takes place in order to convert the geographic coordinates and display a human readable address to the user.

Since the researchers will focus more on running the mobile app on an android platform, Fries framework will be used. It is a mobile UI development framework that creates a native android-like feel using HTML, CSS and JavaScript.

For the web application, the researchers intend to use Sails.js. It is a MVC Framework for Node.js. Node.js is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices. We will also use Socket.io. Socket.IO aims to make real-time apps possible in every browser and mobile device, blurring the differences between the different transport mechanisms. It's care-free real-time 100% in JavaScript.

Tuktuk is the main UI framework for the web app. It is simple and a Responsive Web Design framework for creating websites and web applications. It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components.

All the data will be stored on a MongoDB database. It is a NoSql and a document database that provides high performance, high availability, and easy scalability.

B. System Architecture

In the initialization of the mobile application, it detects the current position of the user through geolocation. The user can navigate in three tabs namely home, info and

hotlines. The home tab contains the current location of the user. It is displayed on the map. Geographical points are converted into human-readable address. Three emergency buttons are present: ambulance, police and fire truck. The info tab contains details like name, age and mobile number of the user. He/She needs to input once and data will be save but he/she can edit if necessary. The hotlines tab contains other emergency hotlines. Since the application is internet dependent because of the geolocation, the emergency numbers are pre dialled enabling the user to call for emergency even without an internet. The system architecture for the mobile application is designed as described in Fig. 1.

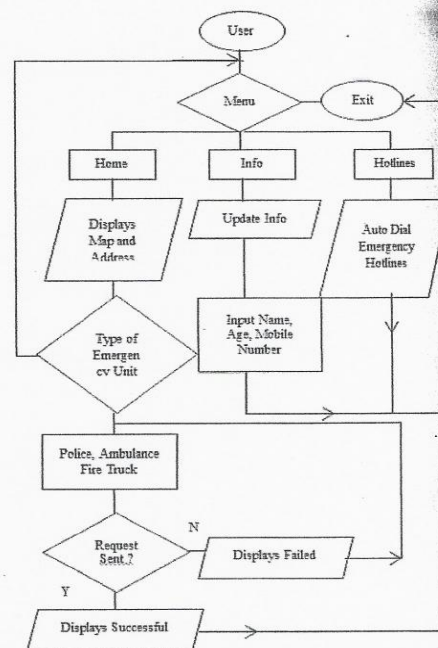


Fig. 1. System Architecture of the mobile application.

For the web application, the dashboard contains a map and a side bar where emergency reports are appended real time. The user can respond, decline and view the report on the map. The system architecture for the mobile application is designed as described in Fig. 2.

C. Graphical User Interface

The researchers provide graphical user interfaces for both mobile and web application where the users can interact with the emergency response system. Fig. 3 shows the prototype of the home tab of the mobile application where the users can select emergency request for ambulance, police and fire truck.

Fig. 4 shows the prototype of the info tab of the mobile application where the users can update their personal information that will be send to the command center.

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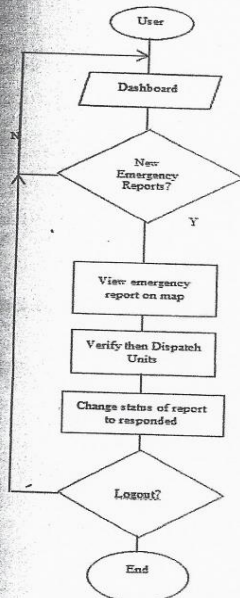


Fig. 2. System architecture of the web application.

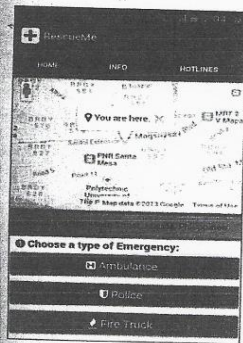


Fig. 3. Home tab.

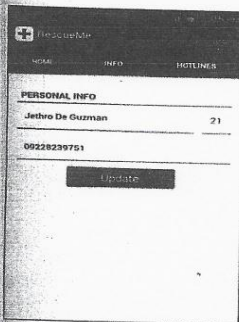


Fig. 4. Info tab.

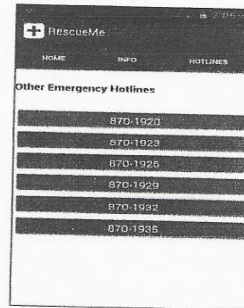


Fig. 5. Hotlines tab.

Fig. 5 shows the prototype of the hotlines tab of the mobile application where it contains pre dialled hotline numbers that can be used when the application is not connected in the internet.

Fig. 6 shows the prototype of the dashboard of the web application where it retrieves the sent emergency request and plot on the map the location from the mobile app user.

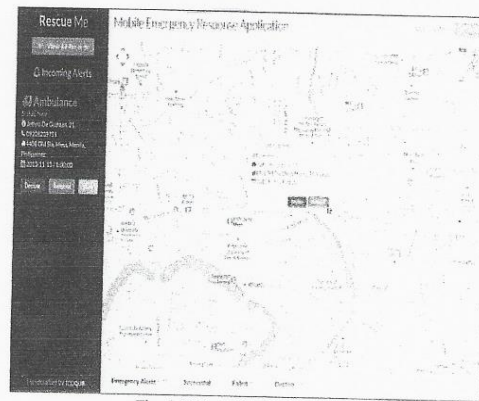


Fig. 6. Web application dashboard.

III. SCOPE AND LIMITATION

The study is mainly focused on the development of a mobile emergency application for the community and a web application for Command Centers.

The mobile application can only run on devices particularly smart phones that run on an Android Operating System version 2.3 Gingerbread or Higher for the meantime. But the app can be ported to other platform since it will be created using Phonegap. While the web application, it can be accessed through the internet.

The mobile app can be downloaded by the community from a webpage where the web application is also hosted. The application basically would detect the user's current location. The user needs to fill up some personal information for verification, such as name, age and mobile number. The application is only limited into three emergency units such as ambulance, police and fire truck.

Once the user click to request a certain emergency unit, the application automatically send the user's geographical points using the phone's GPS together with the personal information. The Command Center's web application will retrieve the sent distress request from the mobile app and plot it in Google Maps real-time.

Since the mobile app needs to track the location of the user, it requires a stable internet connection. Without it, the application won't be able to send an emergency request. Because the application would rely to the IP address provided by the internet connection to locate the current position of the user in the map. The accuracy of the position's detection of the user also depend on the place and how stable the user's internet connectivity. The error of the GPS position is mainly determined by the interaction of the time varying constellation of the satellites and the built-up in the close vicinity [9]. The average position error ranges from 2 meters on an open square to 15 meters even in wide streets with four story houses on both sides. The built-up shades the satellites especially suitable for a positioning. The constellation of the satellites is periodic and the built-up constant, therefore a rudimentary database was used to reduce the positioning error by ~10%. We will also provide auto dialled links for other emergency hotlines in case the user won't have a chance to connect to the internet.

The mobile app cannot support location tracking for users on a moving vehicle. The app detects the last position of the user on the map, and that is the location to be sent to the command center.

IV. CONCLUSIONS

In this paper, we proposed the use of mobile and web technologies to add another option and medium for emergency response. The proposed method used the current trends in mobile and web technologies for fast and efficient dispatching of emergency units

Our goal is not to create a new protocol in emergency response, we have just maximize the use of smart phones to act as medium and to help people save their lives in case of disaster. Command centers will also benefit in a way that the location of the user are easily detected and plotted on a map.

Our proposed system supposed to lessen the response time it takes to respond to emergency events. It also provides reliable information that might help in identifying accidents.

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PE I.7.8

I.7. The Faculty Development Program is implemented with the following provisions:

I.7.8. production of instructional materials (IMs);

Documents attached:

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January 29, 2014

CERTIFICATION

This certifies that **PROF. REMEDIOS G. ADO** and **PROF. ANNETTE M. RAFAEL** developed the Module on Project Management Information System for the Master of Science in Information Technology (MSIT) students in the Open University.

This certification is issued to Prof. Ado for whatever legal purposes it may serve.

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PROJECT MANAGEMENT INFORMATION SYSTEM

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