



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

L3: Action researches to test theory in practice are conducted by faculty and students



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

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**MEMORANDUM OF AGREEMENT**

KNOW ALL MEN BY THESE PRESENTS:

This MEMORANDUM OF AGREEMENT entered into and executed by and among:

The PHILIPPINE COUNCIL FOR INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH AND DEVELOPMENT, a government institution created by virtue of Presidential Degree No. 729 with principal address at DOST Compound Gen. Santos Avenue, Bicutan, Taguig, Metro Manila, represented herein by its Officer-In-Charge, Office of the Executive Director, ENGR. RAUL C. SABULARSE, herein referred to as "PCIEERD";

The DEPARTMENT OF SCIENCE AND TECHNOLOGY – NATIONAL CAPITAL REGION, a government agency created and existing under and by virtue of the laws of the Republic of the Philippines, with postal address at DOST Compound, Taguig City, Metro Manila, represented herein by its Regional Director, JOSE B. PATALINJUG III, herein referred to as "DOST-NCR";

The FOOD AND NUTRITION RESEARCH INSTITUTE, a government institution with principal address at DOST Compound Gen. Santos Avenue, Bicutan, Taguig, Metro Manila, represented herein by its Director, DR. MARIO V. CAPANZANA, herein referred to as "FNRI";

The INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE, a government institution with principal address at DOST Compound Gen. Santos Avenue, Bicutan, Taguig, Metro Manila, represented herein by its Officer-In-Charge, Office of the Director, DR. ANNABELLE V. BRIONES, herein referred to as "ITDI";

The METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER, a government institution with principal address at MIRDC Compound Gen. Santos Ave. Bicutan 1631, Taguig, Metro Manila, represented herein by its Executive Director, ENGR. ROBERT O. DIZON, herein referred to as "MIRDC";

The DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES-ECOSYSTEMS RESEARCH AND DEVELOPMENT BUREAU, a government agency with principal address at DENR-ERDB College, Laguna, represented herein by its Director, DR. SOFIO B. QUINTANA, herein referred to as "DENR-ERDB";

The COMMISSION ON HIGHER EDUCATION - NATIONAL CAPITAL REGION, a government agency with principal address at 2nd Floor Higher Education Development Center Bldg. C.P. Garcia Avenue, UP Campus, Diliman, Quezon City, represented herein by its Director, DR. LEONIDA S. CALAGUI, herein referred to as "CHED-NCR";

The RENEWABLE ENERGY ASSOCIATION OF THE PHILIPPINES, an industry association, with principal address at 39-A J.P. Rizal Ext., West Rembo, Makati City represented herein by its Chairperson, EREL B. NARIDA, herein referred to as "REAP";

The ENERGY EFFICIENCY PRACTITIONERS ASSOCIATION OF THE PHILIPPINES, an industry association with principal address at VV Soliven Building, ED5A, San Juan City represented herein by its President, ENGR. RAYMOND MARQUEZ, herein referred to as "ENPAP";

The PHILIPPINE FOOD PROCESSORS AND EXPORTERS, INC., an industry association with principal address at Tycoon Centre Condominium, Pearl Drive, Ortigas, Pasig City, represented herein by its President, ROBERTO C. AMORES, herein referred to as "PHILFOODEX";

The ADAMSON UNIVERSITY, a private higher education institution with principal address at 900, San Marcelino St. Ermita, Manila, represented herein by its President, FR. MARCELO V. MANIMTIM, CM, herein referred to as "ADU";

*F. J. M. M. M. C.*  
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The ARELLANO UNIVERSITY, a higher education institution with principal address at Legarda St., Sampaloc, Manila, represented herein by its President, FRANCISCO PAULINO CAYCO, herein referred to as "AU";

The COLEGIO DE MUNTINLUPA, a public higher education institution with principal address at Posadas Avenue, Sucat, Muntinlupa City represented herein by its President, DR. TERESITA C. FORTUNA, herein referred to as "CDM";

The DE LA SALLE UNIVERSITY, a private higher education institution with principal address at Taft Avenue, Manila, represented herein by its President, BR. RAYMUNDO SUPLIDO, herein referred to as "DLSU";

The EULOGIO AMANG RODRIGUEZ INSTITUTE OF SCIENCE AND TECHNOLOGY, a public higher education institution with principal address at Nagtahan St. Sampaloc, Manila, represented herein by its President, DR. EDITHA V. PILLO, herein referred to as "EARIST";

The FEATI UNIVERSITY, a private higher education institute with principal address at Holiis Street Sta. Cruz Manila, represented herein by its President, DR. ADOLFO JESUS R. GOPEZ, herein referred to as "FEATI";

The LYCEUM OF THE PHILIPPINES UNIVERSITY, a private higher education institute with principal address at Muralla St, Intramuros, Manila, 1002 Metro Manila, represented herein by its President, ATTY. ROBERTO P. LAUREL, herein referred to as "LPU";

The MAPUA UNIVERSITY, a private higher education institute with principal address at 658 Muralla St, Intramuros, Manila, 1002 Metro Manila, represented herein by its President, DR. REYNALDO V. VEA, herein referred to as "MAPUA";

The MARIKINA POLYTECHNIC COLLEGE, a public higher education institution with principal address at 252 Shoe Ave, Marikina, 1800 Metro Manila, represented herein by its President, DR. JOSELITO B. GUTIERREZ, herein referred to as "MPC";

The PAMANTASAN NG LUNGSOD NG MAYNILA, a public higher education institution with principal address at General Luna St, Intramuros, Manila, 1002 Metro Manila, represented herein by its President, DR. MA. LEONORA V. DE JESUS, herein referred to as "PLM";

The PAMANTASAN NG LUNGSOD NG MUNTINLUPA, a public higher education institution with principal address at University Road, Poblacion, Muntinlupa, Metro Manila, represented herein by its President, DR. ELLEN E. PRESNEDI, herein referred to as "PLMUN";

The PHILIPPINE NORMAL UNIVERSITY, a private higher education institution with principal address at 104, Taft Ave, Ermita, Manila, 1000 Metro Manila, represented herein by its Officer-In-Charge, Office of the President, DR. MA. ANTOINETTE C. MONTEALEGRE, herein referred to as "PNU";

The POLYTECHNIC UNIVERSITY OF THE PHILIPPINES, a public higher education institution with principal address at Anonas St., Sta. Mesa, Manila, represented herein by its President DR. EMANUEL C. DE GUZMAN, herein referred to as "PUP";

The PHILIPPINE WOMEN'S UNIVERSITY, a public higher education institution with principal address at 1743 Taft Ave, Malate, Manila, 1004 Metro Manila, represented herein by its President, DR. JOSE FRANCISO B. BENITEZ, herein referred to as "PWU";

The RIZAL TECHNOLOGICAL UNIVERSITY, a public higher education institution with principal address at 704 Boni Ave Cor Sacrepana, Mandaluyong, 1550 Metro Manila, represented herein by its President, DR. JESUS RODRIGO F. TORRES, herein referred to as "RTU";

The TAGUIG CITY UNIVERSITY, a public higher education institute with principal address at Gen. Santos Ave., Central Bicutan, Taguig City, represented herein by its Officer-in-Charge, Office of the President, DR. JUAN C. BIRION, herein referred to as "TCU";



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The **TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES**, a private higher education institute with principal address at Aurora Boulevard, Quezon City and 383 P Casal, Quiapo, Manila, 1001 Metro Manila, represented herein by its President, **DR. ELIZABETH Q. LAHOZ**, herein referred to as "TIP";

The **TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES**, a public higher education institution with principal address at Ayala Blvd, Ermita, Manila, 1000 Metro Manila, represented herein by its Officer-in-Charge for the Office of the President, **DR. MA. LEONOR F. VALIDOR**, herein referred to as "TUP";

The **TRINITY UNIVERSITY OF ASIA**, a private higher education institute with principal address at 275 E Rodriguez Sr. Ave., Quezon City, represented herein by its President, **DR. WILFRED U. TIU**, herein referred to as "TUA";

The **UNIVERSITY OF SANTO TOMAS**, a private higher education institute with principal address at España Blvd, Sampaloc, Manila, Metro Manila, represented herein by its Rector Magnificus, **FR. HERMINIO V. DAGOHY, OP, PhD**, herein referred to as "UST";

The **UNIVERSITY THE PHILIPPINES-DILIMAN**, a public higher education institution with principal address at Vidal A. Tan Hall, Velasquez Street, Diliman, Quezon City, Metro Manila, represented herein by its Chancellor, **DR. MICHAEL L. TAN**, herein referred to as "UP-DILIMAN"; and

The **UNIVERSITY THE PHILIPPINES-MANILA**, a public higher education institution with principal address at Padre Faura St, Ermita, Manila, 1000 Metro Manila, represented herein by its Chancellor, **DR. CARMENCITA D. PADILLA**, herein referred to as "UP-MANILA".

Which may collectively be referred to as the "PARTIES"

**WITNESSETH**

**WHEREAS**, PCIEERD is mandated to serve as the central agency in the planning, monitoring and promotion of scientific and technological research for application in the industry, energy, and emerging technologies sectors;

**WHEREAS**, DOST-NCR is committed to the promotion, transfer and commercialization of scientific and technological results that are products of R&D for the development of the industry, energy, and emerging technologies in National Capital Region;

**WHEREAS**, Research and Development Institutes namely FNRI, ITDI, and MIRDC are mandated to render a variety of services to local industries generating a large pool of technologies while providing technical services to industry. It also committed to provide services or interventions to industry to help modernize the production sector and improve their productivity;

**WHEREAS**, DENR-ERDB promotes the science-based ecosystem management for sustainable development of industry and energy to achieve sustainable growth;

**WHEREAS**, CHED-NCR is mandated to ensure and protect academic freedom for the continuing intellectual growth, the advancement of learning and research, the development of responsible and effective leadership, the education of high level professionals, and the enrichment of historical and cultural heritage;

**WHEREAS**, REAP and ENPAP promotes the development of the energy sector through productive and sustainable utilization of indigenous energy resources;

**WHEREAS**, PHILFOODEX focuses in the planning, development, and sourcing of raw materials, on research and technology development of world-class quality food products, and on the improvement of manufacturing efficiency and productivity in order to be globally competitive;

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*Handwritten signatures and notes on the right margin, including names like 'Dr. Michael L. Tan' and 'Dr. Carmencita D. Padilla'.*



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WHEREAS, Colleges and Universities namely ADU, AU, CDM, DLSU, EARIST, FEATI, LPU, MAPUA, MPC, PLM, PLMUN, PNU, PUP, PWU, RTU, TCU, TIP, TUP, TUA, UST, UP-DILIMAN, UP-MANILA, recognize the importance of coordinating the industry, energy and emerging technology research and development efforts among their respective institutions into a region-wide, inter-agency and inter-institutional cooperation;

WHEREAS, all PARTIES recognize the necessity of establishing an institutional mechanism that will generate cooperation and commitment to manage and coordinate the industry, energy, emerging technology R&D development efforts in National Capital Region;

NOW THEREFORE, for and in consideration of the foregoing premises and of the mutual covenants, stipulations, and other considerations hereinafter set forth, the PARTIES have agreed as they hereby agree to the following:

**I. ROLES AND RESPONSIBILITIES OF MEMBER-AGENCIES**

**1.1. General**

1.1.1. That all PARTIES agree to form the Metropolitan Manila Industry, Energy and Emerging Technology Research and Development Consortium (MMIEERDC); the concept and principles to which it was formed is made an integral part of this agreement;

1.1.2. That all PARTIES with their respective Heads of agency/institution shall commit themselves to the mandate of the consortium and to the purposes to which it was established, to wit:

1.1.2.a. Create a mechanism for proper coordination, programming, development, and utilization of resources for related R&D works;

1.1.2.b. Foster interagency collaboration and participation between and among the academe, local / national government agencies, and private sector / industry;

1.1.2.c. Promote adoption and utilization of R&D output;

1.1.2.d. Formulate an R&D Agenda for sectors that will be identified by the Consortium; and

1.1.2.e. Generate funding to conduct R&D activities.

1.1.3. That all Heads of agencies/institutions shall comprise the Metropolitan Manila Industry, Energy and Emerging Technology Research and Development Consortium (MMIEERDC) as the highest policy making body of the consortium;

1.1.4. That all PARTIES agree to commit the services of their permanent and alternate representatives herewith attached as ANNEX A, research staff/experts to the consortium;

1.1.5. That all PARTIES agree to utilize and share research facilities and resources in the conduct of collaborative R&D work in the pursuit of its mandate and goal; and

1.1.6. That all PARTIES commit to support the generation and sourcing of R&D fund needed to implement the identified programs and projects of the consortium.

**1.2. Specific Responsibilities**

1.2.1. PCIEERD shall:

1.2.1.a. Provide an operational fund for the operation of the consortium-until such stage that the consortium is capable of sustaining its operational requirements, subject to the submission and approval of a required project proposal for financial assistance; and



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1.2.1.b. Provide direction on research and development goals and priorities of the consortium.

1.2.2. DOST-NCR, DENR-ERDB and CHED-NCR shall:

1.2.2.a. Assist in planning, coordination and implementation of R&D programs/projects/ activities to make them congruent to the Philippine Development Plan or Regional Development Plan;

1.2.2.b. Assist in the promotion and utilization of the R&D output via information dissemination, technology fair, technology investment forum and clinic, etc;

1.2.2.c. Assist in matching sources of funds both locally and internationally to the member institutions implementing R&D programs and projects; and

1.2.2.d. Assist in the provision of other technological services needed by the industry and energy sector.

1.2.3. REAP, ENPAP, PHILFOODEX shall:

1.2.3.a. Provide relevant information particularly industry profiles and technological needs of the various industries in their respective municipalities;

1.2.3.b. Promote the transfer and adoption of consortium R&D generated technologies to their members; and

1.2.3.c. Provide leadership role in establishing linkage and network in the private industries.

1.2.4. FNRI, ITDI, MIRDC, ADU, AU, CDM, DLSU, EARIST, FEATI, LPU, MAPUA, MPC, PLM, PLMUN, PNU, PUP-MANILA, PWU, RTU, TCU, TIP, TUP, TUA, UST, UP-DILIMAN, UP-MANILA, shall:

1.2.4.a. Enjoin newly trained researchers to carry out meaningful researches;

1.2.4.b. Provide a list of research facilities that can be used for the conduct of Consortium R&D activities;

1.2.4.c. Provide a list of experts that can assist by the Consortium on its R&D undertakings;

1.2.4.d. Share research facilities and staff for the conduct of collaborative R&D activities;

1.2.4.e. Participate in the identification of regional R&D priorities;

1.2.4.f. Formulate regional R&D plans and programs;

1.2.4.g. Prepare and implement joint R&D proposals;

1.2.4.h. Monitor and evaluate projects;

1.2.4.i. Conduct training and other shared activities; and

1.2.4.j. Provide logistics and venues for joint meeting conferences and dialogues.

II. RIGHTS OF THE PARTIES

2.1. That all PARTIES have the right to propose amendments to this Agreement, and the documents derived hereafter, made upon the approval of the other signing PARTIES;

2.2. That all concerned PARTIES shall have joint title/rights to all data and research findings derived from jointly undertaken projects; and

2.3. That the ownership of all research results and/or findings shall be in accordance to the Technology Transfer Act or Republic Act 10055.

III. REPRESENTATIONS AND WARRANTIES

The PARTIES hereby represent and warrant as follows:

3.1. It has full power, authority and legal right to execute and perform its obligations under this Agreement;

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Handwritten signatures and notes on the right margin, including 'Informed ...' and '...'



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- 3.2. All necessary approvals and other legal action required to authorize the execution, delivery and performance of this Agreement have been obtained or made and are in effect; and
- 3.3. This Agreement constitutes the legal, valid, and binding obligation of said Party, enforceable in accordance with its terms.

**IV. CONFIDENTIALITY**

- 4.1. The PARTIES hereby unconditionally and irrevocably agree and undertake to, observe the provisions of the Data Privacy Act, to preserve and maintain in utmost confidence all Confidential Information, that may be obtained during the course of implementation of this Agreement;
- 4.2. Without limiting the foregoing, "Confidential Information" shall include but not be limited to statistics, data, source codes, object codes, user manuals, programming manuals, modification manuals, flow charts, drawings, software listings, models, drafts and diagrams in all forms of storage or representation including, but not limited to, documents, loose notes, diaries, memoranda, drawings, photographs, electronic storage and computer print-outs;
- 4.3. The PARTIES acknowledge that the Confidential Information will not be deemed to be public knowledge solely by virtue of the fact that it is embraced by more general information which may have become public knowledge; and
- 4.4. The PARTIES adheres to the data sharing agreement up to the processing of the shared data principle laid down in the IRR of the Data Privacy Act of 2012, NPC Circular 16-02, and all applicable issuances of the Commission, including putting in place adequate safeguards for data privacy and security.

**V. COMPLIANCE WITH LAWS**

The PARTIES agree that they will comply with all applicable national, and local laws, regulations and conventions in the performance of their respective obligations under this Agreement. Each Party further agrees to hold harmless and indemnify the other Party, including reasonable attorney's fees, for any breach, damage and/or injury that may be sustained by reason of the failure of the other Party to comply with such laws, regulations, authority and conventions.

**VI. EFFECTIVITY AND TERMINATION**

- 6.1. This Agreement shall take effect upon signing of all PARTIES and shall remain in force and effect, unless terminated by mutual consent of majority of the PARTIES with written notice. Nothing in this agreement shall preclude any of the PARTIES from terminating the agreement, provided that due notice shall be given to all the PARTIES within thirty (30) days prior effectivity of the termination; and
- 6.2. If no new agreement is signed, this Agreement is deemed renewed for another year and for every year thereafter unless a new agreement is signed to replace it.

**VII. MISCELLANEOUS**

**7.1. Counterparts**

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument. The PARTIES may each execute this Agreement by signing any such counterpart.

**7.2. Entire Agreement**

This Agreement and the documents referred to herein, and such other documents as may be executed by the PARTIES contemporaneously herewith or subsequently pursuant to hereto, constitute and express the entire agreement between the PARTIES with respect to the subject matter thereof and supersedes

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all prior communications, representations, agreements and understandings, whether oral or written, between the PARTIES.

The annexes and appendices are an integral part of this Agreement. In case of conflict between the provisions of this Agreement and annexes and appendices, this Agreement shall take precedence.

**7.3. Amendment of Agreement**

Any amendments, addition, modification or supplement to this Agreement must be made in writing, approved and signed by the PARTIES.

**7.4. Validity and Severability**

Whenever possible, each provision of this Agreement shall be interpreted in a manner as to be effective and valid under applicable Law, but if for any reason any clause or provision of this Agreement, or the application of any such clause or provision in a particular context or to a particular situation, circumstance or Person is held to be prohibited, invalid or unenforceable by any Governmental Authority, then the application of such clause or provision in contexts or to situations, circumstances or Persons other than that in or to which it is held prohibited, invalid or unenforceable, shall not be affected thereby, and the remaining clauses and provisions of this Agreement shall nevertheless remain in full force and effect.

**7.5. Good Faith**

The PARTIES agree to observe the utmost good faith in all matters concerning the subject matter of this Agreement.

**7.6. Further Acts**

The PARTIES agree that they shall individually and jointly cooperate and shall do all things necessary or appropriate and execute and deliver, or cause to be executed and delivered, all documents appropriate or necessary to enable the PARTIES to perform their obligations hereunder and to effectuate the purposes of this Agreement including, but not limited to, obtaining all requisite approvals of all Governmental Authorities, or third Persons with a legal interest in or jurisdiction over the subject matter or transactions contemplated under this Agreement.

**7.7. Waiver**

No failure or delay by any Party to exercise or to insist upon the performance, in whole or in part, of any term, condition, covenant, right, legal or equitable remedy or any provision of this Agreement, shall constitute a waiver of any such term, condition, covenant, right, legal or equitable remedy or provision, or preclude such Party from exercising or insisting upon the performance, in whole or in part, of any such term, condition, covenant, right, legal or equitable remedy or provision of this Agreement at any later time.

**7.8. Governing Law**

This Agreement and the rights of the PARTIES hereunder shall be governed by and interpreted in accordance with Philippine Law.

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 Mr. [Signature]  
 Dr. [Signature]  
 F. [Signature]

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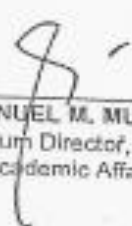






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IN WITNESS WHEREOF, the PARTIES hereto have signed this Memorandum of Agreement  
this \_\_\_\_ day of \_\_\_\_\_, 2018 at \_\_\_\_\_

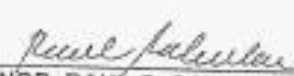
GOVERNING COUNCIL


  
\_\_\_\_\_  
DR. MANUEL M. MUHI  
Consortium Director, and  
VP for Academic Affairs, PUP-Manila

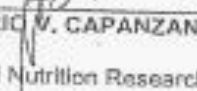
  
\_\_\_\_\_  
JOSE B. PATALINJUG III  
Governing Council Co-Chairperson,  
and Regional Director, DOST-NCR

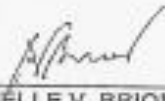
  
\_\_\_\_\_  
DR. NUNA E. ALMANZOR  
Governing Council Chairperson and  
R&D Director, Adamson university

MEMBER INSTITUTIONS

  
\_\_\_\_\_  
ENGR. RAUL C. SABULARSE  
Officer-In-Charge, Office of the Executive  
Director, Philippine Council for Industry,  
Energy and Emerging Technology Research  
And Development

  
\_\_\_\_\_  
JOSE B. PATALINJUG III  
Regional Director, Department of Science  
and Technology - National Capital Region

  
\_\_\_\_\_  
DR. MARIC V. CAPANZANA  
Director  
Food and Nutrition Research Institute

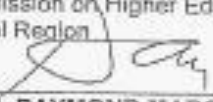
  
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DR. ANNABELLE V. BRIONES  
Officer-In-Charge, Office of the Director,  
Industrial Technology Development Institute

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ENGR. ROBERT O. DIZON  
Executive Director  
Metals Industry Research and Development  
Center

\_\_\_\_\_  
DR. SOFIO B. QUINTANA  
Director  
DENR-Ecosystems Research and  
Development Bureau

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DR. LEONIDA S. CALAGUI  
Director  
Commission on Higher Education-National  
Capital Region

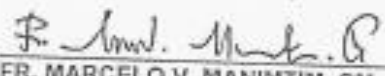
\_\_\_\_\_  
EREL B. NARIDA  
Chairperson  
Renewable Energy Association of the  
Philippines

  
\_\_\_\_\_  
ENGR. RAYMOND MARQUEZ  
President  
Energy Efficiency Practitioners Association of  
The Philippines

\_\_\_\_\_  
ROBERTO C. AMORES  
President  
Philippine Food Processors and Exporters,  
Inc.





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FR. MARCELO V. MANIMTIM, CM  
President  
Adamson University


FRANCISCO PAULINO CAYCO  
President  
Arellano University

DR. TERESITA C. FORTUNA  
President  
Colegio de Muntinlupa


  
BR. RAYMUNDO SUPLIDO  
President  
De La Salle University

  
DR. EDITHA V. PILLO  
President  
Eulogio Amang Rodriguez Institute of Science  
and Technology

DR. ADOLFO JESUS R. GOPEZ  
President  
FEATI University

  
ATTY. ROBERTO P. LAUREL  
President  
Lyceum of the Philippines University


DR. REYNALDO V. VEA  
President  
Mapua University

  
DR. JOSEBITO B. GUTIERREZ  
President  
Marikina Polytechnic College

DR. MA. LEONORA V. DE JESUS  
President  
Pamantasan ng Lungsod ng Maynila

DR. ELLEN E. PRESNEDI  
President  
Pamantasan ng Lungsod ng Muntinlupa

  
DR. MA. ANTOINETTE C. MONTEALEGRE  
Officer-In-Charge, Office of the President  
Philippine Normal University


  
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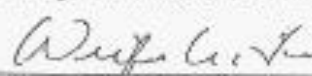
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President  
Rizal Technological University

DR. JUAN C. BIRION  
Officer-In-Charge, Office of the President  
Taguig City University

DR. ELIZABETH Q. LAHOZ  
President  
Technological Institute of the Philippines

  
DR. MA. LEONOR F. VALIDOR  
Officer-In-Charge, Office of the President  
Technological University of the Philippines

  
DR. WILFRED U. TIU  
President  
Trinity University of Asia

FR. HERMINIO V. DAGOHYO, O.P, PhD  
Rector Magnificus  
University of Santo Tomas



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

DR. MICHAEL L. TAN  
Chancellor  
University of the Philippines, Diliman

DR. CARMENCITA D. PADILLA  
Chancellor  
University of the Philippines, Manila

SIGNED IN THE PRESENCE OF:

ENGR. ERMIE M. BACARRA  
Chief, Human Resources and Institution  
Development Division, PCIEERD





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

All known to me to be the same persons who executed the foregoing instrument and they acknowledged to me that the same is their free and voluntary act and deed and that of the entities they respectively represent.

This instrument refers to a Memorandum of Agreement consisting of    pages including the page on which this Acknowledgement is written has been signed by the PARTIES and their instrumental witnesses on each and every page.

WITNESS MY HAND AND SEAL this    day of   , 2018, at the place first above written.

NOTARY PUBLIC

Doc. No.             
Page No.             
Book No.             
Series of 2018           

4



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

ANNEX A

INSTITUTIONAL REPRESENTATIVES

JOSE B. PATALINJUG III  
Department of Science and Technology –  
National Capital Region

ENGR. ROMELYN T. TRESVALLES  
Department of Science and Technology –  
National Capital Region

ENGR. ROSEMARIE G. GARCIA  
Food and Nutrition Research Institute

ALEXIS M. ORTIZ  
Food and Nutrition Research Institute

ENGR. APOKLO VICTOR D. BAWAGAN  
Industrial Technology Development Institute

ENGR. REYNALDO L. ESGUERRA  
Industrial Technology Development  
Institute

Metals Industry Research and Development  
Center

Metals Industry Research and  
Development Center

NERY A. ALBA  
DENR- Ecosystems Research and  
Development Bureau

MARY CATHERINE P. DELOS REYES  
DENR- Ecosystems Research and  
Development Bureau

MERIGEN S. CAFINO  
Commission on Higher Education-National  
Capital Region

ANNALYN P. DIAZ  
Commission on Higher Education-National  
Capital Region

ENGR. OLEGARIO S. SERAFICA  
Renewable Energy Association of the  
Philippines

ENGR. ERWIN SERAFICA  
Renewable Energy Association of the  
Philippines

ENGR. BENJAMIN T. GREGORIO  
Energy Efficiency Practitioners Association  
of The Philippines

Energy Efficiency Practitioners Association  
of The Philippines


FERDINAND R. ESGUERRA  
Philippine Food Processors and Exporters,  
Inc.

Philippine Food Processors and Exporters,  
Inc.



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

DR. NUNA E. ALMANZOR  
Adamson University

  
ENGR. MELANIE B. MENDOZA  
Adamson University

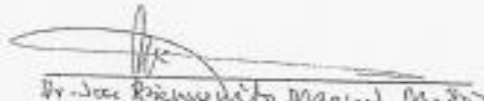
Arellano University

Arellano University

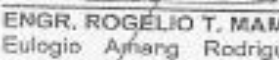
DR. TERESITA C. FORTUNA  
Colegio de Muntinlupa

ENGR. PROSPERO C. CABORNAY  
Colegio de Muntinlupa

DR. RAYMOND GIRARD R. TAN  
De La Salle University


  
Dr. Jose R. Mendoza  
De La Salle University

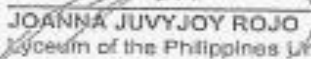
DR. GRANT B. CORNELL  
Eulogio Amang Rodriguez Institute of  
Science and Technology


  
ENGR. ROGELIO T. MAMARADIO  
Eulogio Amang Rodriguez Institute of  
Science and Technology

DR. ROGELIO A. PANLASIGUI  
FEATI University

DR. LEO MENDEL D. ROSARIO  
FEATI University

  
DR. VICTORINA H. ZOSA  
Lyceum of the Philippines University

  
JOANNA JUVYJOY ROJO  
Lyceum of the Philippines University

  
DR. JONATHAN SALVACION  
Mapua University

Mapua University

MARILOU F. ALMOCERA  
Marikina Polytechnic College

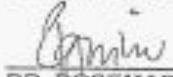
SONIA J. FETALINO  
Marikina Polytechnic College

Pamantasan ng Lungsod ng Maynila

Pamantasan ng Lungsod ng Maynila

DR. ELENA E. PRESNEDI  
Pamantasan ng Lungsod ng Muntinlupa

  
DR. JAIME G. ANG  
Pamantasan ng Lungsod ng Muntinlupa

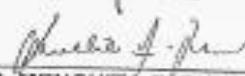
  
DR. ROSEMARIEVIC V. DIAZ  
Philippine Normal University

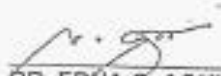
DR. EDNA LUZ R. ABULON  
Philippine Normal University



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

  
DR. MANUEL M. MUHI  
Polytechnic University of the Philippines

  
DR. MENCHITA F. Dumlao  
Philippine Women's University

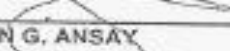
  
DR. EDNA C. AQUINO  
Rizal Technological University

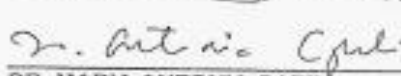
FERNANDO TATARO  
Taguig City University

ENGR. FLORANTE A. MAGNAYE  
Technological Institute of the Philippines -  
Manila

  
DR. JESUSA N. PADILLA  
Technological Institute of the Philippines -  
Quezon City

ENGR. FELIPE RONALD ARGAMOSA  
Technological University of the Philippines

  
DR. ARJUN G. ANSAY  
Technological University of the Philippines

  
DR. MARIA ANTONIA CAPILI  
Trinity University of Asia

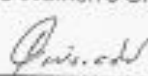
  
DR. BERNARD JOHN V. TONGOL  
University of Santo Tomas

University of the Philippines, Diliman

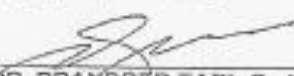
  
DR. VIVIEN FE R. FADRILAN-CAMACHO  
University of the Philippines, Manila

  
DR. GINNO L. ANDRES  
Polytechnic University of the Philippines

Philippine Women's University

  
DR. LEONILA S. CRISOSTOMO  
Rizal Technological University

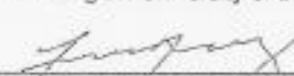
HERMINIA LABON  
Taguig City University

  
DR. DRANDEB EARL O. JUANICO  
Technological Institute of the Philippines -  
Manila

  
ENGR. ARIANNE A. PALISOC  
Technological Institute of the Philippines -  
Quezon City


  
PROF. RENATO BUTCH R. BITUONAN  
Technological University of the Philippines

ENGR. LEAN KARLO S. TOLENTINO  
Technological University of the Philippines

  
ENGR. FERDINAND BUNAG  
Trinity University of Asia

  
DR. MARIA NATALIA R. DIMAANO  
University of Santo Tomas

University of the Philippines, Diliman

  
PROF. JULIAN V. ADVINCULA, JR.  
University of the Philippines, Manila





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

KNOW ALL MEN BY THESE PRESENTS:

This Memorandum of Agreement, made and entered into in the City of \_\_\_\_\_ this \_\_\_ day of \_\_\_\_\_ 2012 by and between:

**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES** (PUP for brevity), a State University created and existing under the laws of the Philippines with principal address at Sta. Mesa, Manila, represented herein by its President, **DR. EMANUEL C. DE GUZMAN**, hereinafter referred to as the **UNIVERSITY**;

-and-

**HYTEC POWER, INC.**, a corporation incorporated and existing under Philippine laws, with principal address at No. 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City, represented by its President, **ENGR. ERIC JUDE S. SOLIMAN**, and hereinafter referred to as the **COMPANY**;

**WITNESSETH:**

**WHEREAS**, the **UNIVERSITY**, is a state university dedicated among others, to the development of new technologies the enhancement of technology education and generation of new knowledge.

**WHEREAS**, the **UNIVERSITY**, in furtherance of its vision to offer advanced programs in the fields of Science and Engineering, that will meet the demands of a knowledge-based and technology-driven economy, is desirous to provide appropriate trainings and seminars for the students of the College of Engineering in collaboration with the **COMPANY** to enhance their qualification for employment in the industry;

**WHEREAS**, the **COMPANY** is engaged in the distribution, supply, service and training on the use of educational and engineering tools and equipment, has the requisite experience, expertise, manpower and capital to perform its obligations under this agreement;

**WHEREAS**, the **UNIVERSITY** and the **COMPANY**, with the objectives and intention of enhancing the strengths of each party and utilizing any and all their available resources that would be beneficial to the parties in order to promote technology in education wherever practicable, have agreed to enter into this Agreement;



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

NOW THEREFORE, the UNIVERSITY and the COMPANY, in consideration of the mutual covenants and agreements made herein, by these presents do enter into a Memorandum of Agreement on the following terms and conditions, to wit:

**ARTICLE I**

**Areas of Cooperation**

1. The scope of cooperation contemplated hereunder includes the following:
  - 1.1 Academe - Industry linkage
  - 1.2 Students Internship Program or On-the-Job Training
  - 1.3 Job fair and other related University activities
  - 1.4 Curriculum and training and seminars
  - 1.5 Job posting
  - 1.6 Job placement/employment
  - 1.7 Faculty development
  - 1.8 Faculty immersion
  - 1.9 Skill certification or center for skill certification

**ARTICLE II**

**Terms of Cooperation**

Subject to availability of resources, the parties shall cooperate in fulfilling the purpose and objectives of the Agreement. Towards this end, they shall exert their best efforts to deliver their respective end as agreed upon within its scope, to wit:

1. The UNIVERSITY through the College of Engineering shall furnish the COMPANY graduate lists of the College of Engineering on a yearly basis upon a written request of the COMPANY, subject to the applicable rules and regulations of the UNIVERSITY.
2. The COMPANY will be allowed by the UNIVERSITY to participate in University sanctioned job fairs upon written request by the Company and subject to the rules and regulations set-forth therein.



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES  
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- Posting of job openings of the **COMPANY** in the PUP College of Engineering website will be allowed, upon written request of the **COMPANY** and subject to the approval of the University.
- The **COMPANY** and/or any its satellite office shall accept at least two (2) candidates from the College of Engineering every term/semester for the ON THE JOB TRAINING (OJT) or INTERNSHIP.
- The **COMPANY** shall employ at least one (1) qualified graduate of the College of Engineering every year.
- The **COMPANY** shall conduct at least one seminar/training session per year at selected six campuses of the **UNIVERSITY**.
- The **COMPANY** shall provide the College of Engineering with pre-employment, entry level and permanent employee evaluation/assessment of its graduates.
- The **COMPANY** shall furnish the **UNIVERSITY** through the College of Engineering a list of all the hired graduates of the College of Engineering specifying therein their respective positions or job titles.

### ARTICLE III

#### Consultation and Exchange of Information

The parties shall exert its best efforts to keep each other informed on matters of common interest in order to widen the exchange of knowledge between them. The consultation and exchange of any information and/or documents under this agreement is without prejudice to any arrangements which may be required under the premises to safeguard the confidential and restricted character of certain information and/or documents.

### ARTICLE IV

#### Academe - Industry Linkages

The parties shall jointly pursue and conduct the following but not limited to the activities, projects and programs enumerated below:

- The **COMPANY** will provide the College of Engineering Faculty and the students in the undergraduate and graduate levels, the support needed for the completion of their respective requirements for practicum or On The Job Training for undergraduates, education cooperation for the graduate students and industry immersion of the faculty members in the design and development of possible projects of the **COMPANY**.
- The **COMPANY** warrants the acceptance of students for the practicum/ On The Job Training and the University shall be free from any liabilities that may arise in the course thereof.
- The College of Engineering shall provide a list of potential trainees for the OJT and faculty immersion. The list of the potential trainees submitted by the College of Engineering shall be screened and interviewed by the duly authorized representatives of the **COMPANY**.
- The **COMPANY**, through its roster of industrial affiliations, will identify the companies that will assist the trainees in their OJT and education cooperation and the possible eventual employment of the College of Engineering graduates.



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

**ARTICLE V**

**Curriculum and Training**

The **UNIVERSITY** shall determine if any of the Company's technology is creditable for inclusion in curriculum of its engineering courses, subject to the approval of the University Academic Council and the Commission on Higher Education (CHED).

The **COMPANY** shall provide the necessary training needed by the faculty and staff of the College of Engineering. The duration, venue, and schedule of the training shall be determined by the parties. The services of the trainers to be supplied by the **COMPANY** shall be free of charge. All other expenses that may be necessarily be incurred for the training such as but not limited to the training facilities, materials, shall be negotiated and further agreed upon by the parties.

The parties shall inform each other of any in-house training that may be available for the students, alumni of the University and employees of the Company.

**ARTICLE VI**

**Faculty Immersion**

Any and all pertinent information shall be made available to the faculty via the Faculty Immersion for their post graduate or masteral requirements. The Company shall provide avenues for the faculty where they can conduct their research and data collection such as but not limited to technical research on latest laboratory equipment.

**ARTICLE VII**

**Participation in Sanctioned University Activities**

The Company shall be allowed, upon written request, to participate in the University's activities such as job fairs, seminars, career orientation and exhibition.

**ARTICLE VIII**

**Confidentiality**

The parties shall ensure that the scientific and technical data and business information mutually provided, are not transferred or supplied to a Third Party without prior written consent of the other party. "Confidential information as" used in this agreement shall mean all data, information, documents and samples disclosed hereunder to the receiving party by the disclosing party, whether written, oral, electronic or in any tangible form relating to the disclosing party's business that is deemed "confidential" at the time it is disclosed or if it is disclosed orally, is identified by the disclosing party as confidential within seven (7) days of such disclosure.



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

ARTICLE IX

Dispute Settlement

Any dispute arising out of the interpretation and implementation of this Agreement shall be settled amicably by consultation or negotiation.

ARTICLE X

General Provisions

1. Intention of the Parties. The MOA does not form a partnership, within the meaning of law, between the parties. As such, no party shall be construed as an agent of the other. It is understood, that one party may not bind nor involve the other to contracting with third parties without its written consent. In addition, neither party shall have any obligation to proceed with any project or undertaking or make any legally binding commitment beyond the agreement contemplated under this MOA.
2. Agreement on Employment. It is understood that no employer-employee relationship is created between the **COMPANY** and **UNIVERSITY** and the concerned individuals representing the **UNIVERSITY** and vice-versa.
3. Binding Effect. This MOA shall take effect between the parties, their assigns and successor-in-interest, except in case where the rights and obligations arising from this MOA are not transmissible by their nature, or by stipulation or by provision of law.
4. Severability. If at any time, any of the provisions of this MOA is adjudged to be or becomes illegal, invalid or unenforceable in any respect under the law, rules and regulations by any competent jurisdiction, the legality, validity and enforceability of such provisions not so affected or impaired shall subsist and remain valid as between the parties.
5. Effect of Force Majeure on MOA. In the event this agreement is prevented from being implemented due to war, civil commotion, strike and labor disputes, acts of God, force majeure or any another analogous causes beyond the control of either party, this agreement shall be deemed suspended during the existence of any of the conditions mentioned. Upon termination or cessation of the force majeure condition, this agreement shall be deemed effective and its duration extended for the period of time of suspension thereof, unless the continued execution and implementation of this agreement shall be impossible for either of the contracting parties.
6. Release and Content of Press Statement. During the term of this agreement, the Parties hereby agree to coordinate and agree beforehand the release and content of any press statement or other publicity emanating from any Party or its affiliates pertaining to the subject matter of this MOA. The University however, may advertise in any form that it is an affiliate of the Company, only with respect to the technical operation of the course and potential placement of the University's College of Engineering graduates at the Company, subject to the standards set by the latter.



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

7. Use of the Logo. Subject to the written approval/clearance of the parties, either party may use the other party's logo in accordance with the said party's logo usage guidelines.

**ARTICLE XI**

**Effectivity**

The Agreement shall be valid and in force upon signing by the parties hereto and shall remain effective unless terminated by either party for want of available resources, violation by the other, and other reasonable grounds upon service of a written notice at least fifteen (15) calendar days in advance.

**ARTICLE XII**

**Amendment**

Either party may request in writing a revision or amendment of this Agreement. Any revision or amendment agreed upon by the parties shall become effective only upon the execution of an addendum or supplemental agreement duly signed by the authorized representatives of both parties.

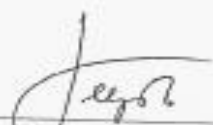
**IN WITNESS WHEREOF**, the parties have hereunto set their hands on the day, year and place first above-written.


**POLYTECHNIC UNIVERSITY  
OF THE PHILIPPINES**

**HYTEC POWER, INC.**


By:

By:

  
\_\_\_\_\_  
**DR. EMANUEL C. DE GUZMAN**  
President

  
\_\_\_\_\_  
**ENGR. ERIC JUDE S. SOLIMAN**  
President

Signed in the Presence of:

  
\_\_\_\_\_  
**DR. SAMUEL M. SALVADOR**  
Vice President for Academic Affairs



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

**Acknowledgment**

Republic of the Philippines)  
City of \_\_\_\_\_ | S.S.

Before me, a Notary Public for in the City of \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_ 2012, personally appeared the following:

Dr. Emanuel C. De Guzman	CTC No. <u>27228740</u>	Issued on <u>08/27/12</u>	Issued at <u>Manila</u>
Engr. Eric Jude S. Soliman	_____	_____	_____

known to me and to me known to be the same persons who executed the foregoing Memorandum of Agreement consisting of 7 pages including this page wherein this acknowledgment is written, signed by the parties thereof, together with their instrumental witnesses, on each and every page hereof, and they further acknowledged to me that the same is their free and voluntary act and deed as well as the entities they respectively represent.

WITNESS MY HAND AND SEAL, on the date and place above-mentioned.

Doc No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of 2012

NOTARY PUBLIC

*[Handwritten signatures and initials]*



**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	<b>Grant in Aid (PUP)</b>	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.