

CURRICULUM VITAE

NILO LASQUITE LEORNA

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Visayas State University
Baybay City, Leyte
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Professional Summary

A dedicated and output-oriented Agricultural and Biosystems Engineer with a strong background in AB Processing and Renewable Energy, seeking to contribute expertise in Food Processing, Renewable energy Utilization and control systems.

Education

Master of Science in Agricultural Engineering

Visayas State University – Baybay City
September 2021

- Thesis: Development of an Automatic Temperature Controller for the Philrootcrops Portable Extruder

Bachelor of Science in Agricultural Engineering

Visayas State College of Agriculture – Baybay City
April 2000

Professional Experience

Director

Renewable Energy Research Center
Visayas State University
Sept 2024 - present

- Provide overall leadership in running the internal and external affairs of the Center in support to the vision, mission, and quality policy of the university
- Source out funds for the implementation of the different research and extension activities of the Center
- Establish sustainable linkages with industries, private companies, foundations, academic institutions, and other agencies involved in the promotion and utilization of new and renewable energy technologies
- Spearhead the conduct of research, development, promotion, and utilization of emerging new and renewable technologies for agri-industrial application and climate change mitigation in Eastern Visayas
- Support the different academic programs of the College of Engineering and Technology and other allied degree programs, including Senior School, in their lecture and laboratory classes through the establishment of a Renewable Energy Park that show case working models of existing and new renewable energy technologies.

Program Coordinator

VSU-Technical Vocational Education and Training
Visayas State University, Baybay City, Leyte
2012-2024

- Coordinate the implementation of Technical Vocational Education and Training (TVET) of the University
- Focal person to all TESDA related transactions

Science Research Specialist (SRS)

Protos Plant Oil Stove Project
ViSCA Foundation for Research and Development (ViFARD), VSU, Baybay City
2004 – 2011

- Conduct laboratory testing, evaluation and improvement of protos plant oil stove
- Supervise the laboratory and stove production activities
- Purchase materials needed in the production of stove part and accessories
- Conduct training and support services of protos project in Tanzania and Indonesia

Science Research Assistant (SRA)

National Coconut Research Center-Visayas
Leyte State University
2002 – 2004

- Conduct monitoring of the Project “Maunlad na Niyogan, Tugon sa Kahirapan”
- Make farm development plans for the farmers cooperator
- Organized farmer cooperative in Burabod, Biliran, Biliran, Philippines
- Conduct farm surveys and assessment
- Produced “Sustainable Coconut Enterprise Development (SCED) Plan” for the recipient farmers and cooperative.

Supervising Engineer

GUARTECH Agri-Industrial Enterprise
Baybay City, Leyte
2000 – 2002

- Make design and fabrication drawings of dryers for Dried Mango Production
- Supervise the fabrication and testing of the dryer
- Purchase materials needed for the fabrication of different food processing equipment and machines

Affiliate Faculty

Department of Agricultural and Biosystems Engineering
Visayas State University, Baybay City, Leyte
June 2012-present

- Taught courses on AB Electrification and Control Systems, Hydrometeorology, Pre-calculus, Properties of AB Materials, Introduction to ABE and Differential Equations.
- Mentored undergraduate students in the field of Food Processing, Renewable Energy, and Instrumentation and Control.

Affiliate Researcher

National Coconut Research Center-Visayas
Visayas State University, Baybay City, Leyte
January 2023 – present

- Co-Study Leader of research entitled “Development and Process Optimization of Dried and Baked Coconut Food Products (2015 -December 2020)
- Co-Project Leader of the research entitled” Development of Processing Equipment for Food and Non-Food Coconut Products (January 2023 – present)

Renewable Energy Research Center
Visayas State University, Baybay City, Leyte
January 2022 – September 2024

- Project Leader of the research entitled “*Bioenergy Generation from Agricultural Wastes, Seaweeds, Algae, Cellulosic Materials, and Plant Oils for Climate Change Mitigation and Food Security*
- Initiated the development of Biodiesel from Waste Cooking Oil
- Extension Coordinator

Research Output Presentation

- Biodiesel Production from a By-product of an Oven-Roasted Chicken (*Gallus gallus domesticus*)-14th International Conference on Environmental and Agricultural Engineering, Bangkok Thailand, June 2024
- Optimization of Biodiesel Production from Waste Cooking Oil of Vacuum-fried Jackfruit (*Artocarpus heterophyllis* Lam.) Pulp Processing – 2024 PSABE 8 Regional Convention, Tacloban City, March 2024.

Awards

2nd BEST TECHNICAL PAPER

National Convention, Philippine Society of Agricultural and Biosystems Engineer, April 25-28, 2024, Legaspi City

- Co-Author

BEST TECHNICAL PAPER

Regional Convention, Philippine Society of Agricultural and Biosystems Engineer -R8, March 13-14, 2024, Tacloban City

- Presenter and Co-Author

BEST POSTER AWARD

Regional Convention, Philippine Society of Agricultural and Biosystems Engineer -R8, March 13-14, 2024, Tacloban City

- Presenter and Co-author

BEST PAPER-DEVELOPMENT PROJECT CATEGORY

16th Regional Symposium Research and Development

Regional Research and Development/Extension Network for Agriculture and Fisheries and the Visayas Consortium for Agriculture and Resources Program

August 2004, Sabin Resort Hotel, Ormoc City

- Researcher
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Skills

- Basic Instrumentation and Control Systems
- Electrical Installation and Maintenance
- Solar PV Installation and Maintenance
- Sketchup CAD software
- Statistical analysis using Statistica Software