

REGISTERED ELECTRICAL ENGINEER. Specializing in the development of automated systems through the integration of programming, instrumentation, and engineering. Passionate, willing to learn, and always seeking improvements.

EDUCATION

University of the Philippines - Los Baños

Bachelor of Science in Electrical Engineering
Major in Computer Engineering
August 2019 – August 2024
DOST – SEI Scholar

TRAININGS

Data Analytics for the Future – X

UPLB Graduate School & DOST PCCAARRD
Nov 2 – Dec 2023

- Completed a 5-day hands-on training on data analytics including data preparation, dashboarding, machine learning, and statistics

Work Immersion

Ogura Clutch Philippines Inc. Calamba City, Laguna
Oct – Nov 2018

- Completed 40 hours of hands-on experience at a micro clutch manufacturing company on Quality Assurance Department, Warehouse Operations, Administrative Office; and Production Line:

ORGANIZATION EXPERIENCE

Chairperson for Skills & Training Committee

UPLB Data Science Guild | 2023 – 2024

- Led the planning and execution of technical training events, covering data science tools and programming
- Coordinated event logistics, including scheduling, speaker invitations, resource allocation
- Managed committee's documentations

LANGUAGES

Fluent in English and Filipino, oral and written

SKILLS

Programming	Engineering	Soft skills
<ul style="list-style-type: none">PythonC++, C, C#VBJavaScriptSQLVHDLAWS	<ul style="list-style-type: none">ArduinoRaspberry PiAutoCADMATLABMPLABMS Excel MacrosPLC	<ul style="list-style-type: none">logical thinkingcreativity and innovationproblem solvingattention to detailscommunicationresearchadaptability
<ul style="list-style-type: none">Interests – Enthusiastic in automation, programming, engineering craftsmanship, and data analytics		

PROJECTS

Development of PID Control for Autonomous Horizontal Navigation of Non-GPS Drone with Onboard Microcomputer

Undergraduate Thesis | 2023 – 2024

- Developed computer vision-based autonomous navigation system of a non-GPS drone using Raspberry Pi Zero 2W
- Integrated communication and control system for drone, microcomputer, and smartphone

Bluetooth Buzzers with Arduino and Python

Personal Project | 2025

- Programmed a Windows app with UI for advanced control such as notifier, timers and score management
- Built buzzers that can be connected to computers and phones
- Integrated with OBS Studio to enhance real-time hosting display

Mung Seed Counting System with Arduino

Project – Course | 2022

- Constructed a device to count mung seeds in real-time
- Built a robotic arm-like mechanical seed-drop mechanism with actuator support and blockage-detection sensors to ensure smooth and continuous seed flow.

Others include: drone simulation app, TV channel scanning device, and 50-digit Arduino calculator