Engr. Jyd Rey A. Mercado ECE, ECT

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ABOUT ME

The kind of individual who believes that true fulfillment is derived from continuous learning. And in a world full of competition, I strongly believe that being analytical, adaptive, optimistic, and driven is what leads us to something great.

LICENSES

- **Passed the Board/Licensure Examination for Electronics Engineers** – *April 2025*
- **Passed the Board/Licensure Examination for Electronics Technicians** – *April 2025*

ACHIEVEMENTS

- Bachelor's Degree **Graduate with Latin Honors (*Cum Laude*)** – *October 2024*
- Senior High School **Graduate with Honors** – 2020
- High School **Graduate with Honors** – 2018

TRAINING AND EDUCATION

Harvard University - Online
Cambridge, Massachusetts, USA
CS50: Python Programming
- **Concentration:** Knowledge and Application
- **Related Coursework:** Conditionals, Regular Expressions (RegEx), Exceptions Handling, Unit Testing, Object-Oriented Programming (OOP), etc.

Polytechnic University of the Philippines - Manila
1016 Anonas, Sta. Mesa, Manila
Bachelor of Science in Electronics Engineering
- **Concentration:** Knowledge and Application
- **Related Coursework:** Computer Programming Fundamentals, Robotics, Mechatronics (Artificial Intelligence – Enabled), Discrete Mathematics, Machine Learning, Deep Learning, Statistics

Angono National High School
Aguinaldo St, Angono, Rizal
Science, Technology, Engineering, and Mathematics
- **Concentration:** Knowledge
- **Related Coursework:** Pseudocode, Introduction to Arduino, Mathematics

EXPERIENCE

Adept Solutions Inc.
Junior Developer Intern
- Trained in developing Enterprise Resource Planning systems
- Applied python programming in developing non-built-in applications for an ERP system.
- Experienced using docker in managing multiple containers.

PROJECTS

Mobile Application
Full-Stack Developer
- **Route4Me** – a real-time GPS tracking application for PUV passengers within Rizal province. It is a mobile application for both android and iOS that's built in a single codebase and is integrated with google cloud services.

Deep Learning and Computer Vision
Full-Stack Developer
- **Ligpit Pang Higpit** – an AI-Integrated bolts and nuts sorting system that utilizes Yolov8 model.
- **SiliAI** – an AI-driven robotic system for efficient sorting of chili pepper that utilizes Yolov8 model.
- **BanaNAS** – a robotic system for sorting of banana's level of ripeness that utilizes Yolo-NAS model.

Basic Robotics and Embedded System
Full-Stack Developer
- **Basic Robotics** – autonomous path-following robot with obstacle avoidance in a specific complex line.
- **Embedded System** – PinTig: a GPS and SMS-enabled emergency heart monitoring device using a microcontroller.

SKILLS

Development Languages: Python, Java, Javascript, HTML, SQL, MATLAB, R, Dart, C++ (derivative)

Frameworks and Tools: Flutter, Roboflow, Odoo, Firebase, Google Cloud Service Tools

Platforms: Windows, MacOS, Linux

Languages: English, Filipino