

# ENGR. JYD REY A. MERCADO ECE, ECT



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## About Me

Over the past few years, I have been exposed to robotics, mechatronics, and software engineering. Currently, I've begun exploring cybersecurity, an interest I had previously set aside due to academic responsibilities and freelance work. While my current focus is on offensive operations, my interest extends to the perspectives of both the Blue and Purple Teams because I believe that developing a comprehensive understanding of offensive and defensive strategies, along with collaborative approaches, is key to a well-rounded view of cybersecurity.

## Frameworks/Tools

Flutter	Odoo
Firebase	Roboflow
Google Cloud Service Tools	

## Dev Languages

Python	SQL
Java	MATLAB
Javascript	Dart
HTML	C++(derivative)

## Platforms

Windows	MacOS
Linux	

## Languages

English	Filipino
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## 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

## Badges/Certifications

- CS50: Python Programming (Harvard University) - [jydrey.short.gy/SIJ53B](https://jydrey.short.gy/SIJ53B)
- Web Requests (HackTheBox) - [jydrey.short.gy/XATyMy](https://jydrey.short.gy/XATyMy)
- Intro to Web Applications (HackTheBox) - [jydrey.short.gy/ZPcPmD](https://jydrey.short.gy/ZPcPmD)
- Using Web Proxies (HackTheBox) - [jydrey.short.gy/TUKbmp](https://jydrey.short.gy/TUKbmp)
- Attacking Web Applications w/ Ffuf (HackTheBox) - [jydrey.short.gy/Lmzvv3](https://jydrey.short.gy/Lmzvv3)
- JavaScript Deobfuscation (HackTheBox) - [jydrey.short.gy/HkloLF](https://jydrey.short.gy/HkloLF)
- SQL Injection Fundamentals (HackTheBox) - [jydrey.short.gy/5ERbPq](https://jydrey.short.gy/5ERbPq)
- Cross-Site Scripting (HackTheBox) - [jydrey.short.gy/ustFUF](https://jydrey.short.gy/ustFUF)
- SQLMap Essentials (HackTheBox) - [jydrey.short.gy/cZ2Qnx](https://jydrey.short.gy/cZ2Qnx)
- Login Brute Forcing (HackTheBox) - [jydrey.short.gy/AdJD8h](https://jydrey.short.gy/AdJD8h)
- Command Injection (HackTheBox) - [jydrey.short.gy/910xHk](https://jydrey.short.gy/910xHk)
- File Upload Attacks (HackTheBox) - [jydrey.short.gy/NA9few](https://jydrey.short.gy/NA9few)
- Information Gathering Web Edition (HackTheBox) - [jydrey.short.gy/zVgdz0](https://jydrey.short.gy/zVgdz0)
- File Inclusion (HackTheBox) - [jydrey.short.gy/rEHgzs](https://jydrey.short.gy/rEHgzs)
- Server-Side Attacks (HackTheBox) - [jydrey.short.gy/88jIDL](https://jydrey.short.gy/88jIDL)
- Certified Bug Bounty Hunter (HackTheBox) - ongoing

## Education

### Polytechnic University of the Philippines – 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

#### 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 apps 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, SiliAI, and BanaNAS** – an AI-Integrated robotic system that utilizes Yolov8 and YoloNAS 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.