ENGR. JYD REY A. MERCADO ECE, ECT

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github.com/Jeydori

jeydori.github.io/jeydori-portfolio

About Me

Over the past few years, I have been exposed to robotics, mechatronics, and software engineering. Currently, I've begun exploring cybersecurity, particularly offensive security, 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
Firebase
Google Cloud Service Tools
Odoo
Roboflow

Dev Languages

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

Platforms

Windows
Linux
MacOS

Languages

English
Filipino

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
- **Web Requests** (HackTheBox) - jydrey.short.gy/XATyMy
- **Intro to Web Applications** (HackTheBox) - jydrey.short.gy/ZPcPmD
- **Using Web Proxies** (HackTheBox) - jydrey.short.gy/TUkbmp
- **Attacking Web Applications w/ Ffuf** (HackTheBox) - jydrey.short.gy/Lmzvv3
- **JavaScript Deobfuscation** (HackTheBox) - jydrey.short.gy/HkIoLF
- **SQLi Injection Fundamentals** (HackTheBox) - jydrey.short.gy/5ERbPq
- **Cross-Site Scripting** (HackTheBox) - jydrey.short.gy/ustFUF
- **SQLMap Essentials** (HackTheBox) - jydrey.short.gy/cZ2Qnx
- 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.