

ENGR. JYD REY A. MERCADO ECE, ECT



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About Me

With a multidisciplinary background in robotics, mechatronics, and software engineering, I have recently transitioned into the field of cybersecurity, focusing on offensive security operations. Over the past five months, I have developed hands-on experience in vulnerability assessment, penetration testing, and ethical hacking, while also engaging with Blue and Purple Team perspectives. I aim to build a comprehensive understanding of both offensive and defensive security strategies, leveraging collaborative approaches to strengthen overall cyber resilience and threat mitigation.

Platforms

Windows MacOS
Linux

Languages

English Filipino

Licenses

- Passed the Licensure Examination for **Electronics Engineers** – April 2025
- Passed the 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/SJ53B
- **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
- **SQL Injection Fundamentals** (HackTheBox) - jydrey.short.gy/5ERbPg
- **Cross-Site Scripting** (HackTheBox) - jydrey.short.gy/ustFUF
- **SQLMap Essentials** (HackTheBox) - jydrey.short.gy/cZ2Qnx
- **Login Brute Forcing** (HackTheBox) - jydrey.short.gy/AdJD8h
- **Command Injection** (HackTheBox) - jydrey.short.gy/910xHk
- **File Upload Attacks** (HackTheBox) - jydrey.short.gy/NA9few
- **Information Gathering Web Edition** (HackTheBox) - jydrey.short.gy/zVgdz0
- **File Inclusion** (HackTheBox) - jydrey.short.gy/rEHgzs
- **Server-Side Attacks** (HackTheBox) - jydrey.short.gy/88jIDL
- **Session Security** (HackTheBox) - jydrey.short.gy/gNLpnZ
- **Web Attacks** (HackTheBox) - jydrey.short.gy/9eNKQQ
- **Certified Web Exploitation Specialist** (HackTheBox) - ongoing

Education

Polytechnic University of the Philippines – Manila

Bachelor of Science in Electronics Engineering

- **Concentration:** Knowledge and Application
- **Related Coursework:** Pseudocode, Introduction to Arduino, Mathematics, Computer Programming Fundamentals, Robotics, Mechatronics (Artificial Intelligence – Enabled), Discrete Mathematics, Machine Learning, Deep Learning, Statistics

Experience

Intertek Group Plc.

Cyber Security Engineer

- **Performed Vulnerability Assessment, Penetration Testing, and Ethical Hacking** to identify and exploit security weaknesses across systems and applications.
- Executed **Red Team operations (Offensive Security)** to simulate advanced threats and assess organizational resilience against real-world attacks.
- Conducted and supported **Blue Team initiatives**, enhancing threat detection, incident response capabilities, and overall **defensive security** posture through proactive monitoring and remediation strategies.

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**.