

# Jestian D. Alcasabas

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## SUMMARY

Electronics Engineering graduate with a solid background in electronic circuit design, embedded systems, automation, and programming. I am skilled in both hardware and software, and I've gained hands-on experience with microcontrollers (Arduino, Raspberry Pi, ESP8266, ESP32), sensors, and PLCs. I am proficient in programming languages like C++, HTML, JavaScript, CSS, Java and Python. I also have experience and knowledge in the version control system (Git), and I'm comfortable using tools such as AutoCAD, Fusion, and PCB design software. I also have a good grasp of automation concepts, control systems, and cutting-edge technologies like AI, machine learning, and IoT.

## EDUCATION

**Polytechnic University of the Philippines Sta. Mesa, Manila** | October 2024

Bachelor of Science in Electronics Engineering; **(1.665 GWA)**

- Research Title: Design and Evaluation of a Portable Heart Monitoring System with ANN Algorithm for Early Arrhythmia Recognition Among Traffic Enforcement Personnel.
- Projects:
  - Enhancing Recycling Efficiency: A YOLOv8- Powered System for Automated Aluminum and Tin Can Sorting Using Robotic Gripper.
  - Automated Waste Segregation of Opaque Plastic, Transparent Plastic, and Metal using Arduino and Sensors.

## INTERNSHIP AND TRAINING

Melham Construction Company | Research and Development Engineer (July 2022)

- Developing and testing electronic circuits, PCB layouts, and system prototypes from concept to functional models.
- Programming and integrating microcontrollers (ESP8266, Arduino, Raspberry Pi) for real-time applications.
- Writing low-level code in C/C++ or Python for embedded devices and sometimes interfacing with high-level applications.

TESDA Mechatronics Servicing NC II | Trainee (June 2022)

- Exposure to basic PLC operations and logic functions used in automation.
- Ability to integrate mechanical, electrical, and electronic components to function as a unified automated system.
- Practical knowledge in installing and configuring basic sensors and actuators.

## LICENSE AND CERTIFICATIONS

Licensed Electronics Technician | April 2025

Network Security | May 2025

Fundamentals of Quality Assurance | June 2025

SQL Associate | October 2024

Cisco Packet Tracer | May 2025

Fundamentals of Agile | October 2023

## SKILLS

**Technical Skills:** SDLC & STLC Concepts (Waterfall, Agile, V-Model, DevOps), PDCA cycle, Artificial Intelligence, Machine Learning, Deep Learning.

**Programming Languages:** Python, C++, Html, JavaScript, CSS, Java, SQL.

**Software:** Microsoft Office, Google Suite, AutoCAD, Blender3D, SketchUp, Autodesk Fusion

**Hardware:** Microcontrollers, Sensors, Testing, Assembling, PLC, Automation.

**Soft Skills:** Attention to details, Problem-Solving, Critical thinking, Time management, and Able to understand quickly.