

# JUDITO N. PEPITO JR

## COMPUTER ENGINEERING STUDENT | ASPIRING SOFTWARE ENGINEER

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<https://judsportfolio.netlify.app/>

### PROFILE SUMMARY

Computer Engineering student with solid foundational knowledge and hands-on experience in web development and IoT systems. Has worked on practical projects involving microcontrollers, Raspberry Pi, real-time data monitoring, and user interface development. Seeking an On-the-Job Training opportunity to gain real-world industry experience, deepen programming knowledge, and further develop technical skills in a professional engineering environment.

### PROJECTS

#### SELECTED DEVELOPMENT PROJECTS

- **Capstone Project: Smart Energy Monitoring System**

*Raspberry Pi, ESP32, Python, React Native*

- Designed and developed an IoT-based energy monitoring system for real-time power consumption tracking.
- Used ESP32 for sensor data acquisition and real-time measurements, with data processing and management handled by a Raspberry Pi.
- Built a mobile/web interface to visualize energy usage and system status in real time.
- Implemented anomaly detection concepts and prepared the system for future AI/Machine Learning (NILM) integration.

- **Gas Sensor Alarm System**

*ESP32, Blynk, C++*

- Built an IoT-enabled gas leakage detection and alert system for safety applications.
- Implemented real-time monitoring and mobile notifications using Blynk platform.
- Enhanced system responsiveness to ensure immediate alerts during hazardous conditions.

- **Smart Breaker (Short Circuit & Overload Detection)**

*ESP32, C++, Blynk*

- Developed a protective electrical system capable of detecting short circuits and overload conditions.
- Automated circuit disconnection to improve safety and prevent equipment damage.
- Responsible for writing the code and integrating hardware and software components to ensure proper system functionality.

- **SaveWise – Expense Tracker Website**

*JavaScript, CSS/HTML*

- Created a responsive expense tracking web application with CRUD functionality and user authentication.
- Designed to help users monitor spending and improve personal financial management.

- **Etch-a-Sketch Interactive Drawing Game**

*HTML/CSS, JavaScript*

- Built an interactive web drawing game with customizable grid, color selection, and reset features.
- Focused on responsive design and JavaScript-based DOM manipulation.

### TECHNICAL SKILL

- **Programming Languages:** Python, JavaScript, C++

- **Web Development:** HTML, CSS, React, React Native

- **Embedded Systems & IoT:** ESP32, Raspberry Pi, Arduino UNO Sensors, Blynk

- **Tools & Platforms:** Git, GitHub, Visual Studio Code

- **Soft Skills:** Problem Solving, Critical Thinking, Collaboration, Communication

### EDUCATION

**Bachelor of Science in Computer Engineering**

Cebu Technological University – Danao Campus

2025 — Present

**Accountancy, Business, and Management**

Consolacion National High School - DC (*with honors*)

2016 — 2022

### ADDITIONAL INFORMATION

- Open to internship and On-the-Job Training (OJT) opportunities.
- Familiar with Agile development and version control (Git).
- Interested in IoT, front-end development, and automation.
- Technical Committee Member, ICpEP.SE – CTU Danao

### CERTIFICATIONS:

- 2024 — Programming Java NC III – TESDA
- 2023 — Creative Web Design – TESDA
- 2023 — Robomania – (Participant)
- 2023 — ICpEP.SE Seminar – ‘Git Good at Version Control

### REFERENCE

Engr. Chona R. Dagatan

OJT Coordinator | BSCpE Chairperson

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