Enrico Miguel S. San Pedro
Bachelor of Science in Computer Engineering

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PROFILE

A Computer Engineering fresh graduate with hands-on experience in hardware and software development. Skilled in web development basics like HTML, CSS, and JavaScript. Proficient in Python for Raspberry Pi projects and C/C++ for Arduino.

EDUCATION

Bulacan State University - Laboratory High School (2019 – 2021)
- Senior High School (Science, Technology Engineering & Mathematics)

Bulacan State University - Meneses Campus (2021 – 2025)
- Bachelor of Science in Computer Engineering

SKILLS

Technical Skills
- Web Development
  - HTML/CSS/Javascript (Vanilla), ReactJS, TailwindCSS, NodeJS, Express & MongoDB
- Hardware Development
  - C, C++, Python
- Version Control
  - Git, Github
- Cloud Database
  - MongoDB Atlas
- Software Development Life Cycle (SDLC) models and principles

Soft Skills
- Attention to Detail; Flexibility; Team Collaboration; Communication Skills (oral & written); Critical Thinking,

EXPERIENCE

Evergreen Environmental Resources, Inc. - Quality Assurance and Technical Intern (2024)
- Worked with a team that was assigned to analyze gathered data about the company's bottlenecks.
- Created another method for a simpler and time efficient document approval in the company's portal.

NOTABLE PROJECTS

Arduino Based – Water Level Sensor
- An Arduino based miniature water level sensor system that integrates a float switch that detects three (3) levels of abrupt shift in water levels.

Arduino Based – Interactive Game Console
- An Arduino Based video game controller that contains two (2) games. It has corresponding buttons that compliments both games, restart and power off button as well.

Arduino Based – Smart Trash Bin
- An Arduino Based smart trash bin that is equipped with a ultrasonic sensor to detect movement around the trash bin that automatically lifts up the lid with the help of the servo motor, afterwards, an installed alcohol bottle sprays at its position to aid sanitization.

Portable Canine Scabies Detection Device – Prototype
- A Raspberry Pi based device that detects irregularities in skin of various dogs that could possibly lead to Canine Scabies.
- Equipped with several Python libraries and a lite version of machine learning algorithm to further be reliable in terms of results.

Responsive Website Portfolio

- A showcase of my HTML/CSS and JavaScript knowledge and capabilities. Also includes a brief backend with Express.js used to send and store user messages sent through my website contact form.

CERTIFICATIONS

Cloud Management System Certified Engineer, Dahua Technology (2025 - 2027)

Institute of Computer Engineers of the Philippines, Member (2021 – 2025)

SEMINARS

Network Master: From Configuration to Success, Bulacan State University - Meneses Campus (2025)

Journey to Innovation: Exploring Data Science in Computer Engineering, Bulacan State University - Meneses Campus (2025)

REFERENCES

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Thesis Adviser