VALERIAN SHEAN TENEDY

robotics engineer

+62 89651644583
valeriantendy@gmail.com
GG koja kebon no 8B, jakarta barat
https://https://valerian736.github.io
LinkedIn

PROFESSIONAL SUMMARY

Third year Computer Engineering student with a focus and passion for robotics, IoT, and embedded systems. Motivated to gain new experiences in related fields to drive innovation and technical advancement. Committed to strong collaboration and adaptability by successfully contributing to team initiatives and delivering impactful results on projects.

EDUCATION

BINUS UNIVERSITY
September 2023 - Present

Computer Engineering | 3rd year

GPA: 3.42/4.0

SMA SINAR DHARMA
2020 - 2023

MIPA

VOLUNTEERING & LEADERSHIP

IEEE Student Branch
January 2024 - January 2025
member

- Collaborated with a team to design Survbot, a surveillance robot with camera feed and omnidirectional movement.
- Prototyped electronic circuits to test designs and code functionality.
- Designed and fabricated PCB for the surveillance robot project.

CERTIFICATIONS

Introduction to IoT
Simplilearn
November 2025

Machine Learning using Python
Simplilearn
November 2025

SKILLS

Hard Skills: CAD DESIGN, FUSION 360 (AUTODESK), PCB Design, KICAD, EASYEDA, EMBEDDED SYSTEM, ARDUINO , ESP IDF, BAREMETAL AVR , C++, PYTHON, MATLAB, FLUTTER, VHDL, ESP32, RASPBERRY PI, ELECTRONICS, MQTT, HTTP, BLE, LoRa, Machine learning

Soft Skills: Problem-Solving, Teamwork & Collaboration, Problem-Solving, Critical Thinking, Creativity & Innovation, Communication Skills, adaptability

PROJECTS

Survbot

Jun 2024 - Jun 2025

- Designed a surveillancerobot with omnidirectional movement and real-time video feed.
- Engineered custom PCB and electronics using the esp32 platform as the main microcontroller.
- Developed firmware for on the ESP32 platform, integrating real time video feed, motor controls, and wireless communication.

CrashAlert

Feb 2025 - Jun 2025

- Developed a crash detection device designed to identify car crashes and automatically locate and contact emergency services.
- Implemented real-time accident detection algorithms based on accelerometer and gyroscope data.
- Programmed GSM module to automatically send SMS alerts with live location to emergency contacts.

RoboDrive-32

July 2025 - September 2025

- Designed a custom 4 layer PCB based on ESP32 platform for robotics projects.
- Integrated step down converter, motor driver and microcontroller into one board.
- Handled end-to-end hardware development from component selection to physical assembly and verification.

Draupnir

July 2025 - September 2025

- Designed a custom PCB around the ESP32 platform integrating power management, SD card, GPS module, and user I/O interfaces.
- Developed firmware to control peripherals, manage data logging, and enable wireless communication.
- Assembled the board by selecting components, soldering parts, and validating hardware functionality.

LANGUAGES

English (Fluent), Indonesian (Native), German (Intermidiate), Chinese (Basic)