

VIKI FEBY HARTONO

Pontianak, West Kalimantan, Indonesia | anenviki@gmail.com

linkedin.com/in/viki-feby-hartono | tiktok.com/@vikifeb

instagram.com/vikifeb | youtube.com/@anenofficial | anenofficial.my.id

PROFESIONAL SUMMARY

Motivated Electrical Engineering undergraduate with hands-on experience in embedded systems, IoT development, and UAV telemetry implementation. Skilled in designing and integrating hardware and software solutions using ESP32, LoRa communication, Pixhawk flight controllers, GPS modules, and real-time telemetry systems. Familiar with microcontroller programming, sensor interfacing, wireless communication, and troubleshooting embedded applications. A fast learner with strong analytical thinking, problem-solving abilities, and a commitment to delivering reliable engineering solutions in multidisciplinary environments.

EDUCATION

SMA Arastamar Air Upas | Natural Science (Ilmu Pengetahuan Alam)

- Final Grade: 82,14
- Completed senior high school education with a strong interest in science and technology.
- Active member of the Student Council (OSIS) and the Publication, Decoration, and Documentation (PDD) team.
- Assisted in maintaining school computer systems, network infrastructure, and multimedia equipment.

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python
- **Embedded Development:** ESP32, Arduino, PlatformIO
- **UAV Systems:** Pixhawk, MAVLink, DroneBridge, Mission Planner
- **Wireless Communication:** LoRa, Wi-Fi, Bluetooth
- **Communication Interfaces:** UART, SPI, I2C
- **Hardware & Electronics:** Sensor Integration, GPS Modules, Hardware Troubleshooting

- **Development Tools:** Arduino IDE, Visual Studio Code, Git, GitHub

KEY PROJECTS

UAV Telemetry System Using DroneBridge | DroneBridge, Pixhawk, MAVLink, Mission Planner

- Designed and implemented a real-time UAV telemetry system using DroneBridge and Pixhawk Flight Controller.
- Integrated telemetry data transmission between UAV and Ground Control Station (Mission Planner).
- Improved communication reliability for flight monitoring and control.

LoRa-Based UAV Tracking System | ESP32, LoRa, GPS, C/C++, UART

- Developed a long-range UAV tracking system using ESP32, LoRa, and GPS modules.
- Implemented real-time GPS coordinate transmission and monitoring.
- Optimized wireless communication for low-power and long-distance operation.

Object Detection System for UAV Payload Mission | Jetson Nano, OpenCV, Python, Pixhawk

- Developed an image processing system using NVIDIA Jetson Nano and OpenCV for object detection.
- Integrated detection results with Pixhawk to support autonomous payload missions.

IoT Monitoring System | ESP32, IoT, Sensor Integration

- Developed an IoT-based monitoring system integrating sensors, ESP32, and wireless communication.
- Implemented real-time data acquisition and hardware-software integration.

CERTIFICATIONS & PROFESIONAL TRAINING

JUNIOR REMOTE PILOT AERONAUTICAL KNOWLEDGE COURSE (Drone Indonesia)

- Completed training in aeronautical knowledge, UAV flight regulations, aviation safety, weather fundamentals, airspace classification, and remote pilot operations.

Workshop Participant Be Creative with Arduino | 2024 (HME FT UNTAN)

- Learned Arduino fundamentals, sensor integration, and basic embedded system programming.

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Technical Operator – TeTalks & Committee Member (HME)

- Facilitated mentoring sessions to strengthen students' character development and teamwork.
- Guided participants through collaborative discussions and educational activities.

Student Council (OSIS) Member | SMA Arastamar Air Upas

- Assisted in organizing school programs and student activities.

Publication, Decoration, and Documentation (PDD) Committee

- Managed event documentation and supported multimedia activities.

Pancasila Character Education Mentor (Pendikar)

- Mentored students through character development and collaborative learning activities.

Technical Support – School IT Infrastructure

- Assisted in maintaining computer systems and local network infrastructure.