THAI VAN HOA

IoT Intern Developer

CONTACT

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EDUCATION

IoT & Robotics 2021-Present

Vietnam-Korea University of Information and Communication Technology

SKILLS

- Programming: Python, C/C++.
- IoT: Raspberry Pi, ESP32, LoRa, MQTT.
- Mobile Development: Flutter.
- Tools: Git, Linux, Node-RED, Altium, Thonny, Visual Studio, Arduino IDE.
- Soft Skills: Team Communication, Problem-solving, Adaptability.

LANGUAGE

- English

PROFILE

Final-year IoT and Robotics student at Vietnam-Korea University, passionate about smart IoT solutions. Experienced in automation, gesture control, and health monitoring using Raspberry Pi, ESP32, and Node-RED. Seeking an internship to apply my skills in IoT development and contribute to innovative projects.

- Short-term Goal: Gain hands-on experience in IoT projects, master MQTT and LoRa, and secure a full-time role.
- Long-term Goal: Become an IoT expert, focusing on smart automation and accessibility solutions.

PROJECTS

Automatic Device Control via DHT *2022 – Present*

- Developed an IoT system to control devices using temperature and humidity data from DHT11/AHT20 sensors, with a Node-RED dashboard for visualization and automation.
- Technologies: Raspberry Pi, ESP32, MQTT, Node-RED, Python.
- Role: Lead Developer. Designed system architecture and automation logic.

Face Recognition User OpenCV *2022– Present*

- Built a facial recognition system for attendance tracking on a laptop, using OpenCV for face detection and Firebase for data storage.
- Technologies: Python, OpenCV, Mysql.
- Role: Developer. Created recognition pipeline and user interface.

Health-Pulse ESP32 App *2023 – Present*

- Designed an app to monitor heart rate and SpO2 with MAX30102 sensor on ESP32, featuring a Flutter-based mobile interface for data visualization.
- Technologies: ESP32, MAX30102, Flutter, Python.
- Role: Developer. Integrated sensor and developed mobile app.

Sign Language Detector with Raspberry Cam *2024– Present*

- Created a gesture recognition system for sign language using Raspberry Pi camera, with OpenCV for detection and gTTS for text-to-speech output.
- Technologies: Raspberry Pi, Python, OpenCV, gTTS.
- Role: Developer. Built recognition model and accessibility features.