

# VŨ VĂN HOÀNG

Electronics & Telecommunications Engineering Student | UET-VNU

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## SUMMARY

Passionate about Embedded Systems and 6G Wireless Networks. Skilled in C/C++ and Python. I aim to apply my analytical skills and technical expertise in research on next-generation communication technologies.

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## TECHNICAL SKILLS

- Programming Languages: C/C++, Embedded C, Python.
- Hardware & Platforms: ESP32, STM32, Arduino framework.
- Network Analysis: Wireshark.
- Peripheral Protocols: UART, SPI, I2C.

## PROJECT

Multi-tasking IoT Gateway (ESP32 & FreeRTOS)

- Description: Developed a robust IoT system capable of handling concurrent tasks without system blocking.
  - Key Responsibilities:
    - Designed a multi-tasking architecture using FreeRTOS to manage sensor reading, OLED display, and WiFi communication simultaneously.
    - Used Queues for inter-task communication and Mutexes to protect shared resources (I2C bus).
    - Captured and analyzed data packets via Wireshark to optimize MQTT transmission efficiency.
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## EDUCATION

University of Engineering and Technology (VNU-UET) | 2025-2029

- Major: Electronics and Telecommunications Engineering
  - GPA: 3.97 / 4.0
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## ADDITIONAL INFORMATION

- Language: English (Reading technical datasheets)
- Soft Skills: Logical Thinking, Fast Learning, Self-study Research.