

RESUME

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EDUCATION

2022 - present	Ho Chi Minh City University of Technology and Education Major: Computer Engineering Technology.
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SKILLS

Programming Language	Embedded C, C++, Python, Bash Shell.
Framework/Platform/Tool	QtC++, QtPython, Arduino, Keil 8051, RTOS (freeRTOS), Embedded Systems, Application layer network protocols (MQTT), Electronics, PCB Design (Proteus Design Suite), PyTorch.
Workflow	Git, Github.
Others	Good understanding of OOP methodologies, SOLID principles Experience in using the linux environment.

CETIFICATIONS

2024	Samsung Innovation Campus about Internet of Things course.
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PROJECTS

Smart Decorative Screen. 2025	Developed a decorative item featuring a screen to display information, controlled via a joystick. Modes include image display from an SD card, temperature and humidity monitoring, and graph plotting. - Language: C++ - Hardware: ESP32, TFT LCD 2.2", DHT11, Joystick. - Platform: PlatformIO - Framework: Arduino
Home Automation System. 2024	Final assignment for the COOL course. Controlled 5 devices with functionalities such as light-sensitive auto-switching, scheduled operations, and Bluetooth reporting. - Language: C - Tool: The Keil 8051 Development Tools - Hardware: AT89C52, DS1302, LCD16x2, others sensors.

Fire safety and monitoring system for apartments. 2024	<p>Capstone project for the Samsung Innovation Campus. Developed a GUI application in Raspbian OS for monitoring sensors (temperature, humidity, gas, flames) and syncing data to Firebase.</p> <ul style="list-style-type: none"> - Language: Python - Framework: PyQt6 - Hardware: Raspberry Pi 4 B+, others sensors.
MiniSupermarket Management. 2024	<p>OOP final project. Created a local application (using text file storage) for managing a supermarket, including features for managing customers, goods, and bills.</p> <ul style="list-style-type: none"> - Language: C++ - Framework: QtC++
Lane Detection. 2024	<p>ML & AI course final project. Performed basic lane recognition using PSPNet for left, center, and right lane detection.</p> <ul style="list-style-type: none"> - Language: Python - Framework: PyTorch