



NGUYEN BA THANH

Embedded Firmware Intern

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EDUCATION

Da Nang University of Science and Technology (DUT)

Sep 2021 - Sep 2026

Faculty :Electrical Engineering

Major :Electronics and Telecommunication

WORK EXPERIENCE

Sheraton Grand Danang Resort - Technical Support

May 2022 - Present

- Monitor and evaluate the performance of the equipment throughout the event to ensure the quality of sound and images.
- Perform regular maintenance on the equipment to prolong its life and ensure optimal performance.
- Check and install the entire electrical system before the event takes place
- Other work (Chef, bartender, waiter, dishwasher ...)

PROJECT

OTL Differential Power Amplifier Circuit (3/4 point)

Sep 2023 - Dec 2023

- Calculate the parameters of each component such as BJT, resistor...
- Simulate Proteus to know the amplification level of each stage
- Design and construct speaker circuit on Altium - 40W

Motor circuit for greenhouse (3.5/4 point)

Feb 2024 - May 2024

- Using Arduino Nano to control sensors lights
- Design and construct DC motor circuit - 72W

Smart parking system (4/4 point)

Aug 2024 - Dec 2024

- Using ESP32 to communicate with MQTT
- Display empty parking lot on Oled screen
- Fire sensor and sprinkler motor circuit

HONOR & AWARDS

Scientific Research in Da Nang University of Science and Technology - DUT

First Prize | January 2023

BK Product Exhibition Idea - TechShow

Second Prize | January 2023

Scientific Research in The University of Da Nang - UDN

Encouragement Prize | January 2024

Science and Technology at high school

Third prize | May 2019

SKILLS

Protocol: MQTT, UART, I2C, SPI, TCP, UDP

Microcontroller: ESP32, Arduino, STM32, Jetson Nano

Simulation and PCB Design: Proteus, Altium, Matlab

Programming : ArduinoIDE, Visual Studio Code, WireShark

Language: TOEIC 450