Truong Minh Triet

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<u>Summary:</u> Experienced Embedded Hardware and Firmware Student with a passion for innovation. Actively engaged in various competitions focused on embedded systems, showcasing technical proficiency and problem-solving skills. Completed an Internship at Taiwan CGU, gaining hands-on experience in firmware development and collaborating within a dynamic team environment. Eager to apply academic knowledge and practical skills to contribute effectively as an Intern in Embedded Firmware.

Experience

Bosch Global Software Technologies Company

Ho Chi Minh

Intern Embedded firmware

Start Year 2023 – End Year 2023

Responsible for developing and designing MCAL, BSW, RTE and ASW layer based on AUTOSAR standard.

- Enable the peripheral such as GPIO, SPI, CAN bus for TC275 microchip.
- Controlling actuator and reading sensor in car applications
- Interract with FOTA using Raspberry Pi as a gateway to upload software from microchip to Jetson Orin

Summer Internship at ChangGung University

Taoyuan/Taipei

Internship and graduation thesis

Start Year 2024 - End Year 2024

Design a lazer-light cueing shoe for Parkinson Diseases Indivitual

- Design hardware using STM32F446RE microchip communicates with ICM20948 IMU via SPI protocal to caputre foot motion, NRF24L01 to synchronize the data from both shoes and BLE to upload data from shoes to computer and FOTA applications.
- Design firmware for reading data from IMU, NRF24L01, JDY-18 BLE and FSR sensor. Control the Lazer-light cueing and vibrator to stimulate patients' foot to help patients get out FoG symtomp.
- Deisign Software to receive BLE data using Qt creator and design GUI for Ble application on Windows and Android.

Activities and Projects

Teaching Assistant Arduino programming (2020)

- Teaching Assistant at Teky for highschool students learning arduino using C++.

Participate Kambria Hackathon (2021)

- Building medical support robot using ROS to measure SPO2, Blood pressure and Heart rate.
- Using Arduino to read sensor data and transfer the data into the embedded computer inside Ohmni robot which is given by the host.
- Using ROS to navigate the robot and control robot's movement.

Participate Student Sciencetific Compatition (2023)

- Build an autonomous drone using STM32F4 as a main microcontroller.
- Using Kalman filter algorithm and PID controller for drone stability.
- Using MQTT to broadcast the data read from the drone to NodeRed server via UART between STM32 and ESP32

Building custom STM32F4 Baremetal HAL layer (2024)

- Building a custom STM32F4 HAL layer to understand the microcontroller structure.
- Using C and Cmake build the project.

Education

Ton Duc Thang University, Bachelor, Automation and Control Engineering, 2019

• A 4-year, full-time degree program

Skills

- Programming languages: C/C++, Python, Rust Hardware design: Altium, KiCad Frameworks: Qt creator, Pytorch, ROS Operating Systems: Ubuntu, Windows Languages: English (Ielts 6.0)