DINH TRUNG KIEN

EMBEDDED SOFTWARE ENGINEER

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Objective

Short-term: Become experienced mentor/developer who can analyze and find solution for customer requirements.
Long-term: Become software architect, have enough competency to create, build, maintain architect, ensure reusable, scability, adaptability of the software.

Skills

Embedded Software Programming:
Experience

Software Architecture/Detail Design:
Intermediate

Hardware/Electronic:
INTERMEDIATE

English:
INTERMEDIATE

Knowledges

-Communication protocol: familiar with SPI, UART, I2C,...
- RTOS fundamental principles and concepts: familiar with CPU scheduling, task timing, pre-emptive system, task synchronization,...
- Software developement life cycle: familiar with waterfall model, V model, continuous integration and devliery model,....
- Design pattern: have knowledge about design patterns like adapter, composite,...
- Hardware: able to read PCB layout/diagram.

Education

Ho Chi Minh City University Of Technology, Bachelor Of Engineering

Aug.2017 - Nov.2021

Degree: Bachelor Of Engineering Field: Electronics - Telecommunications Engineering
Mode Of Study: Full-time
Degree classification: Above Average

Certifications

2020: TOEIC L&R 740

Working Experience

Bosch Global Software Technologies-RBVH, Embedded Software Developer

MAR.2022 - FEBRUARY. 2023

- Role: embedded/automotive software developer.
- Customer: chinese automobile company/factory (Geely, Xiaomi, Chery....).
- Hardware: Airbag ECU (support hardware: CANoe, testboard, debugging tool,...).
- Software: automotive application (run on Autosar RTOS).

At Bosch Global Software Vietnam, i'm working with other team members to satisfy customer requirement. I first analyze system requirement and find the solution. After analyzing phase, i continue to develop the software, write documents and do relevant integration test.

Ho Chi Minh City University Of Technology, Intern

JUN.2019 - AUG.2019

In my University internship, I worked in a lab at my university. My team built a basic automation system (PLC based). I took responsibility for an input module: this module classify the fruit types from camera images. In this internship project, I used Tensorflow-Keras framework for building deep learning model.

STUDENT EXPERIENCE

Interests

I love playing sports, reading books,...

University Of Technology, AUTOMATED THROUGH-HOLE PIN SOLDERING MACHINE MODEL

Feb.2021 - July. 2021

LOCATION: HO CHI MINH CITY
In this project, I wrote an firmware to control three-axis CNC model (MCU based) and a software in PC to control CNC model. This software can get data (positions, areas of through-hole pins) from a PCB's Gerber files and then send it to the CNC model. It can also control CNC model. CNC model takes commands from the software, moves its endpoint to PCB's through-hole pins and begin soldering. The operation repeats until every through-hole pin is soldered or is interrupted by software commands. I wrote model's firmware in C/C++ and software in C# .Net Framework.

Lam Dong Province, FINGERPRINT ATTENDANCE SYSTEM

Jan.2021 - May. 2021

LOCATION: LAM DONG PROVINCE
In this project, I built an embedded system (MCU based) for my high school. This system was brought to Science and Technology Contest held by Lam Dong Province. The system's operation: It detects student's hand and pump hand sanitizer. After that, it measures student body's temperature, takes student's fingerprint and save data to external EEPROM (I2C Protocol). When the embedded system connects to a PC via a support software, the student's data will be transferred from local memory to the PC.I wrote firmware for the embedded system in C++ with FreeRTOS, and software in computer in C# .Net Framework.