

Nguyen Trong Dung

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OBJECTIVE

I want to be a Linux Embedded System Engineer with deeply understand about Linux Kernel. In addition, I hope to work with other engineers who have a good acknowledge about Linux Embedded System, Linux Kernel and Programing.

EDUCATION

Oct 2015 - June 2021 **Thai Nguyen of Information Technology University**
Major: Embedded System
GPA: 3.1/4

WORK EXPERIENCE

May 2019 - Dec 2019 **FPT Software**
Internship
Main responsibilities:
- Learning about Linux Device Driver and Linux Kernel.
- Support Leader to prepare example code for training other students.

- Join the team and work with the Android porting project.

Recognition and Gains:
- Have acknowledged about Linux kernel, Linux Device Driver (Character driver, GPIO, SPI, UART, Watchdog, Device tree,...), and Linux Programming concepts (File IO operations, IPC, socket, signal, process management, system call, share memory, multiple thread,...).
- Improve English Reading and Listening Skills.

Project:
- Character Driver:
+ Interrupt handling with button and led.
- GPIO Controller Driver for Beaglebone Black:
+ Linux GPIO driver architecture.
+ Device tree.
+ Interrupt controller

- + Pin muxing.
- SPI Protocol Driver for Beaglebone Black:
 - + Linux SPI Driver architecture.
 - + Support Nokia 5110 LCD.
- UART userspace application for communicate with other peripherals.

June 2020 - Present

Hunonic Viet Nam Company

Embedded system programmer

Main responsibilities:

- Research and programming for MCU: stm32, nrf52840, esp8266,...
- Support Modbus RTU for stm32.
- Support some GSM modules for stm32 with some properties likes: MQTT, HTTP, OTA,...
- Support Moisture sensor and Humidity sensor for stm32.
- Work with BLE stack of NRF52840, support OTA for NRF52840 used Esp8266 for downloading firmware.

Achievements and skills gained:

- Have an idea about testing and developing commercial devices.
- Have more acknowledge about coding convention, process data (Parse Json, AES encrypt, B64 encrypt).
- Have more experience in working with sensors, flash memory, MQTT, HTTP,...

ACTIVITIES

December 2019 - Present

Training for Student about Embedded Programing

Training for Student about Linux Embedded, IOT.

- Support, training for other member of some facebook group intended for Embedded Programing, MCU, Linux Device Driver,...

September 2019 - October 2019

Presenter/Supporter of Trainer

Training linux device driver for VHD's engineers.

- Present with topic Linux GPIO Driver to Viettel High Technology Industries Corporation's engineers.
- Present with topic Linux SPI Driver to Viettel High Technology Industries Corporation's engineers.

March 2019

Author of video series Linux Basic For Beginner on youtube.

Training linux device driver for VHD's engineers.

- Link vidieos: <https://www.youtube.com/watch?v=EFf0KSlnZqc&list=PLL68erM6rDuLJF0McqtgoG6lcQ7eH7Kw3>

HONORS & AWARDS

2019

Win the third prize of FPT's Linux Embedded Challenge Competition 2019 - LEC 2019.

2018	Win the consolation prize in the school-level algorithm competition
2016-2020	Get scholarships during studying time at University.

SKILLS

Language	English reading and listening, Vietnamese
Computer	Word, Excel, Powerpoint, EA

INTERESTS

I like coding, reading, music, lion dancing.