



Ngoc Trieu Phan

Software Developer



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About Me

I am a software developer with electronic engineer background. I am passionate in exploring new knowledge, designing embedded systems, especially for smart devices and IoT. I love to solve problems in programming, collaborate and learn from excellent people

Career Objectives

Becoming a research engineer in Autonomous System
I am looking for a position that allows me dig into knowledge about robot and autonomous system.

On-going Courses

SLAM Course (University of Freiburg)
Programming for Robotics ROS (ETH)

Language

English: Professional Working Proficiency

Experience

Software Developer

06/2021 – Present

FPT Software – Da Nang

Automotive System

Designed the monitoring and controlling system of electrical car and tractor, using socket technologies for communicating between ECUs and Processes through many signals to controller tractor's behavior and creating UI for interact with the tractor from Projektor/Qt framework on Linux Kernel.

- Design and Implementing the method for communicating between physical devices by using **CAN bus protocol** with **Boost Asia** in **Linux Kernel**, and **language C/C++**.
- Using sorting **algorithms** for rearrange the reference lines on car.
- Implemented RPC protocols for communicating between the processes
- Created UI by using Javascript/QML in Projektor/Qt framework

Education

B.S in Electronics and Telecommunication

09/2017- 06/2022

Da Nang University of Science and Technology (DUT)

GPA: 7.0, **Capstone:** Industrial Zone Environment Monitoring and Controlling System

Coursework: Image Processing, C/C++ Programming Languages, Probabilistic, Computer Architecture, Semiconductor Devices, Circuit Analysis

Projects:

- Robot Controller (Arduino, ultrasonic sensor, C++)
- Swift Birds Monitoring System (Sensor, MQTT, Node-red, Python, C/C++, ESP8266)
- Water Level Monitoring System (STM32F4, C/C++, ultrasonic sensor)
- Design ALU 8-bit (FPGA, VHDL)

Skills

Programming Languages

- C++
- Python
- Java Script
- VBA

Technical

- Image Processing
- Algorithm
- Deep Learning
- Torch
- Linux
- VS Code / Git

Professional

- Research
- Self-learning
- Problem solving
- Communication
- Adaptability
- Presentation

Certificate

Linux device driver programmer (Udemy)

Data Structure and Algorithm (Udemy)

Practical OpenGL and GLSL shaders fundamentals with C++ (Udemy)

Reference

- Nguyen Huu Tuan
Project Manager, FPT Software
Email: tuannh9@fsoft.com.vn
- Dr. Linh-An Phan
Postdoctoral Researcher, University College Cork
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