



Ngoc-Trieu Phan

Software Developer

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About Me

I am a dedicated software developer with a background in electronics and telecommunication engineering. I am driven by my passion for exploring new knowledge and designing distributed, large-scale systems, particularly for the system using image processing and computer vision system. I am a quick learner, proficient in Python, C++, and can work well under pressure to meet deadlines. I am currently seeking an opportunity to pursue a higher degree in Korea and further develop my skills and expertise.

Career Objectives

Become an expert in the field of cloud and network systems, make significant contributions to the field through innovative research and development projects. I am seeking a challenging and rewarding career in research and development, where I can apply my technical knowledge and problem-solving skills to develop cutting-edge technologies that address real-world problems.

On-going Courses

- Image Processing and Computer Vision
- OpenCV Programming with C/C++

Language

English: Professional Working Proficiency

Experience

Software Developer 06/2021 – Present
FPT Software – Da Nang

Developed the monitoring and control system for electric cars and tractors, using unit socket network technologies to communicate between different electronic control units (ECUs) and processes. Designed and Implemented the asynchronous methods for communicating between physical devices by using **CAN bus protocol** with **Boost Asia** library in **Linux Kernel (C/C++)**.

- Constructing OSI Model (7 Layers) for network communication in embedded system
- Using IPC/ RPC protocols of network in process of communication between devices
- Socket programming and memory optimization
- Created UI on Projektor/Qt framework with JavaScript for interacting with the service between front-end and back-end.

Education

B.S in Electronics and Telecommunication 09/2017- 06/2022

Da Nang University of Science and Technology (DUT)

Capstone: Industrial Zone Environment Monitoring and Controlling System

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

Projects:

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

Skills

Programming Languages	Technical	Professional
<ul style="list-style-type: none">• Python• C++• Java Script	<ul style="list-style-type: none">• Matlab• Linux• Docker• Algorithm• VS Code / Git / Qt	<ul style="list-style-type: none">• Research• Self-learning• Problem solving• Communication• Adaptability• Presentation

Certificate

- C/C++ Advanced Programming (Udemy)
- Data Structure and Algorithm (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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