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 embedded systems, particularly for intelligent and autonomous systems. I am a quick learner, proficient in C++ and Python, 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 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

- Microsoft Azure Fundamentals (Udemy)
- Kubernetes (Udemy)

Language

English: Professional Working Proficiency

Experience

Automotive 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, and using various signals to control the tractor's behavior.

- 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
- Created UI using Projektor/Qt framework on Linux Kernel to interact with tractors and cars through exchanging data from UI to CAN-Com/D-bus and vice

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: Information Network System, C/C++ Programming Languages, Probabilistic, Computer Architecture, Semiconductor Devices, Circuit Analysis
Projects:

- 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)
- Robot Controller (Arduino, C++)

Skills

Programming Languages
- C++
- Python
- Java Script
- VBA

Technical
- Networking
- Linux
- Docker
- VMWare
- Algorithm
- VS Code / Git / Qt

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

Certificate

- Linux device driver programming (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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