



# Le Phuong Nam

Embedded System - Linux

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## OBJECTIVE

Try to learn as much as possible and doing my best in order to accomplish my task. Finding good opportunities to get promotion in my job . Develop my skills with development of company, I want to prove myself.

## EDUCATION

**Bach Khoa University** (Sep 2015 > Nov 2019)

**Major: Computer Engineering**

GPA: 7.40/10

Years of experience: 1.5 year

## SKILLS

Office	● ● ● ● ●
Communicate	● ● ● ● ●
Handle situations	● ● ● ● ●
English	● ● ● ● ●
Team work	● ● ● ● ●
Logical thinking and creative	● ● ● ● ●
Public Speaking	● ● ● ● ●

## INTERESTS

Music	Technology
Basket ball	Embedded system
Food	CODE
Travel	

## WORK EXPERIENCE

**STYL Solutions PTe** (July 2019 > December 2020)

**System Engineer**

1. Build Android system (Linux, C)

- Learn to build Yocto for iMx6-ULL and iMX8.
- Optimize modules of kernel, bootloader and build Android image.
- Write driver to control IO peripheral (GPIO, LED, USB manage power, proximity sensor) for Linux kernel 4.x.
- Write service to provide AIDL

2. Write application for Android device (Java, JNI - Java/C++)

- AIDL - JNI - Native Service
  - Write server application to start when boot complete
  - Write AIDL to export library .JAR, then provide the API to Android application.
- Create a bridge to support application control hardware device via driver.

3. Write application for Windows 10 (C++/.Net)

- Application receive a tray for TrayReturn machine by using .Net:
  - + Read source
  - + Update source
  - + Update to change UI - add GIF image.
- Application Test Tool to test device via send command code (serial command), using Qt/C++ language.
  - + Design UI and write application with basic functions of device.
  - + Write an application to handle the process of controlling Dobot robot arm and reader to determine where to touch the card automatically. Export the report results to a .csv file.
  - + Write protocol to communicate device via serial port. Write an application to read value data of Ambient Light Sensor then show on real time graph.
  - + Use Doxygen to command code

4. Others: Github <https://github.com/phuongnam0907>

#### **Self-study** (Jun 2019 > July 2019)

##### ***Freelance***

- Build Image based on Linux for NanoPi Core.
- Re-draw the extended RK3399 board (schematic, footprint, layout PCB) using Altium Designer.

#### **Bach Khoa University** (Sep 2015 > Jun 2019)

##### ***Student***

THESIS: "Building data collection system based on LoRa Multi-hop wireless network and embedded operating system for Internet of Things application" Tasks:

- Design network creation algorithm.
- Perform read data from sensors using Arduino circuit with C.
- Perform communication between Arduino and Android Things (on Raspberry Pi 3 board).
- Build a gateway with function to manage the sensor nodes on Java.
- Design stackable circuits to connect multiple sensors using EAGLE, Altium Designer.
- Build a local server to manage data, which was collected by sensors on PHP, MySQL. Create a Json string to response the client requirement.
- Write Android application to display data in charts with Java Core.
- Write a website to display data with Javascript, HTML/CSS.

Others:

- Can use programming languages: C/C++/C#, Verilog HDL, Java, PHP, HTML, ...
- Previously worked on projects, exercises on:
  - + Simple commodity management application with C/C++.
  - + Stopwatch with Verilog HDL.
  - + Design electronic circuits with Altium Designer, EAGLE.
  - + Sound intensity reporting system uses Arduino, other sensors and other modules.
  - + Processing data from website for backend with C#.
  - + Writing the Android app on receiving the JSON data from the server.
  - + Data transfer by using LoRa board, being used in Internet of Things (IoT).
  - + Simple projects with Android Things on Raspberry Pi 3B, using Java: Blink LED, read signal from RFID, send data to server.
  - + Design a website with HTML, CSS, Javascript.
  - + Build server for website with PHP (phpMyAdmin - MySQL).
  - + Writing driver for LoRa Hat board, on Android Things, using Java language.

#### **Dai-ichi Life Vietnam** (Jun 18, 2018 > Aug 17, 2018)

##### ***Intern - Business Analyst (BA)***

- Read document about some systems of company.
- Write report about Customer Contact Management System, Royalty Point System (include define object used, kind of problem, processing department, checking process).
- Learn about the process of warehousing.
- Draw data flow of system processing.
- Define the variable and data type of the system in the database.
- Rewrite documents of product and customer management system (define data type in database, draw relationship of tables in database, define primary key and foreign key in each table).

- Write documentation for the new system (object used, function, working process, database).
- Test new system (user-testcase, admin-testcase) with Task Management System (task approval process).
- Write documentaion about the process of selling products through the post office (VNPOST).
- Design user interface of mobile application and define function of symbol on screen (Day-ichi Life Mobile Application).

## ACTIVITIES

### **Volunteer Spring in 2017** (Dec 30, 2016 > Jan 1, 2017)

#### ***Volunteers***

- Exchanging with students, who didn't have conditions to return home for Tet at Bach Khoa University.
- Visiting, organizing games and giving gifts, candy at the School disabled student Be Tho - Long Binh, Bien Hoa City, Dong Nai Province.
- Organizing exchanges and performing arts at Nhi Tan Primary School - Hoc Mon, Ho Chi Minh City.
- Giving 200 pieces of porridge for homeless people working late at night in Ho Chi Minh City.
- Giving 300 pieces of porridge to poor patients at the HCM City Oncology Hospital.

### **Full Moon Festival in Ben Tre Province** (Sep 9, 2016 > Sep 11, 2016)

#### ***Volunteers***

- Making lanterns, as gifts for students of primary school.
- Organizing gifts, playing with children.

### **CSE Connection 2016 - Welcome New Students** (Aug 2016 > Sep 2016)

#### ***Technician - Campers***

- Camp manager.
- Participating in game management for the campers.
- Adjusting sound for music programs.

### **Information Technology Week - BKIT Quiz 2016** (Mar 2016 > Apr 2016)

#### ***Technician - Communications***

- Communication, introduction, promotion programs to students of other schools.
- Adjusting sound effects for the program:
  - + BKIT Quiz game.
  - + Color Run.
  - + BKIT Night Music Festival.

### **Volunteer Spring in 2016** (Jan 2016 > Feb 2016)

#### ***Volunteers***

- Collecting bottles in District 10 to raise funds.
- Visiting, playing, working, cleaning at Mai Am Que Huong orphanage in Binh Duong.
- Collecting old books for sale, raising funds.
- Visiting, playing with elementary school children in Hoc Mon district.
- Cooking the porridge and give porridge to the needy, the poor laborers or people have to work late at night.