PERSON INFORMATION

Software Developer (Embedded, C/C++, Linux)

- Le Minh Duc
- 0912372045
- minhducle2082k@gmail.com
- www.linkedin.com/in/minhduc2082k
- Hanoi

EDUCATION

Hanoi University of Science and Technology

Aug 2018 -March 2023

[Major] - Control Engineering and Automation

SKILL AND CERTIFICATES

Language	TOEIC Certificate 600 Good at communication
Program	• C/C++ • Python,JavaScript • Script language: Bash, Shell
Microcontrollers	• STM32 • ESP32/ESP32 IDF • Arduino • Renesas

Others	• Communication Protocols
	  i) Application Layer: MQTT
	  ii) Physical & Data Link Layer: UART, I2C, SPI
	• Having experiences and skills to write documents: HLD, SRS, Test case
	• Git
	• Linux
	• Makefile, CMakelists

WORK EXPERIENCE

[Graduation project]

Working time	Oct 2022 – Feb 2023
Name	Design Smart Lock integrated Anti-thief mode for apartment
My responsibility	❖ Project description: • Design a lock that is having one more ways to open door • Anti-thief mode can be *turn on or turn off* by smart phone • Device is added "warning function" to notify to owner ❖ Main tasks: • Design circuit • Handle algorithm and data for system • Build app to control and observe device
Technologies	• C/C++ • Altium • Microcontrollers: Arduino, ESP32 • Firebase (DB)

[FPT Software]

Position	Developer
Working time	Feb 2022 – March 2023

My responsibility	• Building Web using HTTP to monitor device
	• Building Firmware for Air purifier
	  ▪ Programmable control of air purifier HMI states using Rotary Encoder and Touch Sensor
	  ▪ Writing "Make file" for HMI task

Technologies	• Renesas RL78 – Using e2 Studio (C Programming) • Git • Makefile

[VNPT Technology]

Working time	April 2023 – Oct 2023
Position	Developer
Name	Smart Home
My responsibility	**Working and developing for Smart home system:** ❖ IP Camera ▪ Building test tool for Ip Camera's ❖ IR Blaster (MCU) ▪ Writing SRS and activity diagram for IR Blaster ▪ Programming for functions, handle message to transmit from IR Blaster to Backend or receive message from Backend to device. ▪ Building test tool for collect data feature and electricity supply of others devices ▪ Writing test case (Function and Performance) for device ❖ Gateway (Linux – C/C++) ▪ Developing and debugging functions for Gateway ▪ Writing test case for tool to manufacturing equipment of factories ▪ Add more SRS document about child device of Gateway *(Smart curtain, Context switch)*
Technologies	• C, C++, JavaScript, Shell script • ESP32 • MQTT, ZigBee, Bluetooth, Wifi

[LG Electronic Development Vietnam]

Working time	Oct 2023 - Now
Position	Developer
Name	Home Appliance
My responsibility	**Working and developing for Kitchen devices:** ❖ Refrigerator • Developing features in Fridge: hanlde message queue of app, optimize logical of source code • Handle restructure solution for Fridge, restructure work flow to move specific model to common model *(Using LG internal language program)* • Unit test for Fridge functions: update Cmakelists (add LIB) and build work flow unit test.
Technologies	• C, C++ • Renesas • UART • Using script language to run on PowerShell & Linux

INTERESTS

+ Soccer