# PHẠM AN NHÀN

Firmware Engineer

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## PERSONAL PROFILE

- Gender          : Male
- Birthday        : 30/01/1991
- Address         : Do Xuan Hop, District 9, Ho Chi Minh, Viet Nam

## OBJECTIVES

- Challenge myself in a more professional environment based on the working experiences to reach a new height of knowledge and experience.

- Learn and get more knowledge, experience in order to be a good engineer.

## SUMMARY INFORMATION

- Programming Languages: C/C++, Python, Labview.

- Software: Altium Designer, Arduino, Labview, TrueStudio, Git

- Knowledge of micro-controller: 8051, AVR, STM32, ESP8266, ESP32

- Knowledge of interface: UART, I2C, SPI, ADC, PWM, Watchdog, Flash Memory, HTTP Request, TCP/IP, MQTT, GSM...

- Capacity to learn, research sth in a very short time with a good result.

- Design the Schematic and PCB Layout for the electronic circuits.

## EXPERIENCE

Year(s) of Experience: 4

Current Level: Team Leader / Supervisor

**11/2018 - Now : FreeLance - mIOTLAB**

- Find solutions for jobs.
- Labview developer.
- Hardware design ( SCH, PCB on Altium).
- Test driver AC servo.
- PLC Mitsubishi.
- Design and construct: camera, wifi, smart home...

**3/2016 - 11/2018 : RD Manager - KIM SON TIEN CO.,LTD**

- Firmware developer for ESP, Arduino, STM32 (TCP/IP, UART, SPI, I2C, CAN BUS, Modbus RTU, GSM, ...)
- Python developer: python, flask, MySQL.
- Hardware design ( SCH, PCB on Altium).
- LUA script for the gateway.
- Manage maintenance and warranty.
- Support for the agency and technical staff.
- Design and construct: camera, wifi, smart home, the electrical cabinet ...

**10/2013 - 3/2016 : RD Staff - KIM SON TIEN CO.,LTD**

- LUA script for the smart home.
- Hardware design ( SCH, PCB on Altium).
- Construct a smart home, wifi, network...
- Check, maintenance the smart home equipment.

## EDUCATION

- Highest Degree Level: Bachelor
- **Completion date 8- 2013**
- **Bachelor - HCMC University of Technology and Education**
- Major: Electrical & Electronic

## SKILLS

- C/C++ For MCU
- Python, MySQL, and Flask
- Hardware design.
- Work pressure
- Lua script
- TeamWork
- Design: camera, wifi, smart home, electrical cabinet
- Labview

## PROJECT

| Name | Function | MCU,Language | Position |
|------|----------|--------------|----------|
| Daikin Controller RS485 (2017) | - Control the Daikin VRV (Temp, mode ...)<br>- Web config. ( Wifi, IP address, Modbus ..)<br>- Send status to the gateway.<br>- Develop function communication between device and gateway by the HTTP request. | -Raspberry<br>-Python<br>-Flask<br>-MySQL | - Firmware developer<br>- Manager |
| Wifi To Sim | - Send SMS, CALL.<br>- Get status from  SMS, CALL (DTMF, SMS..)<br>- Develop function communication between device and gateway by the HTTP request.<br>- Web config.<br>- Balance check, recharge function.<br>https://sites.google.com/view/miotlab/home/project?authuser=0 | -Raspberry (2014-2016)<br>-ESP8266 (2017->now)<br>-ESP32 | - Firmware developer<br>- Hardware design<br>- Manager |
| Wifi To IR | - Send IR code.<br>- DecodeIR code.<br>- Get temperature, humidity.<br>- HTTP GET,POST, PUT request.<br>- FotaUpdate.<br>- Web config. | -Raspberry (2014-2016)<br>-ESP8266 (2017->now) | - Firmware developer<br>- Hardware design<br>- Manager |
| Lua Code for Fibaro<br>(2013- 2018) | - Develop function communication between the gateway to other devices ( Sonos, Lumi, Ha Bridger, motion detector camera... )<br>- Develop function: Security, SmartLight, timer,and other functions<br>- Find the MJPG stream path of the camera for the gateway.<br>- Developer: Nats, | Lua script | - Firmware developer<br>- Manager. |
| Tractor Silk<br>(2014) | - The STM32 connect to  LCD TFT  for GUI control.<br>- The STM32 save and get variable from sd card.<br>- The STM32 send position, Velocity, Acceleration to Arduino.<br>- Developer function communication between the stm32 to Arduino. | STM32<br>Arduino | - Firmware Developer |

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| Robot Arm (2019 ) | - Test Firmware Driver AC Servo<br>- Hardware design: Schematic and PCB for Driver AC Servo.<br>- Labview developer. | | - Hardware design.<br>- Firmware developer<br>- Manager |
| Data transfer (2018) | - The ESP receives data from the server (Japan).<br>- The ESP decode data.<br>- The ESP send data to another server (Viet Nam).<br>- Send SMS to user for the overload data settings. | Esp8266 | - Firmware developer |
| Other projects | - Stair light.<br>- ROS system.<br>- Stepper controller.<br>- Measure distance.<br>- ATS controller.<br>- Mini security ( ESP with 3 IN Sensor, 1 OUT relay and sim900 ).<br>.. | - Arduino.<br>- Raspberry. | - Firmware Developer |

## REFERENCES

- **Phạm Hoàng Thức**
  **0937997110 – ph.thuc@gmail.com - Manager**
  KIM SON TIEN CO.,LTD