

# PHAM TRONG HUYNH

**Embedded Software Engineer** (intern)

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## OBJECTIVE

My name is Pham Trong Huynh, I'm a computer engineering student at the University of Information Technology. I discovered that I have had a passion for making automated products for everyday life since high school and I was determined to pursue this major so that I could further develop my interest and have the opportunity to make people's lives simpler and happier with my inventions

## EDUCATION

- University of Information Technology – Ho Chi Minh City
- Major: Computer Engineering
- Current GPA: 7.95 / 10
- Subjects studies:
  - Programming languages: ASM, C, C++
  - Tools: Vs Code, Matlab, Simulink, Proteus, Quartus

## EXPERIENCE

### **UAV in rescue** (Group member)

*Feb 2022 – Now*

- Using stm32F4 microcontroller, PWM, timer, interrupt, I2C, UART
- Using IMU mpu6050 to balance UAV
- PID controller application for control

### **Automatic Irrigation System** (Group member)

*Mar 2022 – Now*

- Use esp32 microcontrollers to communicate with peripherals such as soil moisture sensors, LED warnings, water pumps, humidity temperature sensors and OLED LCD

### **Control Car** (Personal project)

*Dec 2021 – Feb 2022*

- Control the device using MIT App Inventor using NodeMCU ESP8266

### **Smart Clock Project** (Group member)

*Oct 2021 – Dec 2021*

- Used to manage time, alarms, temperature notifications
- Esp8266 nodeMCU communicates with led matrix, sensors through Google Assistant.

### **Catch The Light Project** (Leader)

*Ari 2021 – Jul 2021*

- The product is a novelty toy, highly entertaining
- 8051 microcontroller controls 50 RGB single LEDs to create effects for the game
- Use interrupt and noise cancellation for the push buttons.

### **Smart Trash Can** (Group member)

*Ari 2018 – Jul 2018*

- Using Arduino Uno to control the motor

- Infrared sensor detects people approaching to open the lid of the trash can

### **Organization Of Virtual Run (Organizing Committee)**

*Nov 2020 – Dec 2020*

- The goal is to spread the spirit of running to more people.
- With more than 170 participants

### **SKILLS**

- Basic knowledge in C or C++ programming language
- Basic understanding in Micro-Controller and Embedded System
- Read - understand English materials, and basic communication
- Good self-study ability.

### **INTERESTS & HOBBIES**

- Reading books
- Playing football and running