# Chau Ngoc Tinh

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*I am a third-year student and studying Electronics and Telecommunication at Ho Chi Minh City University of Technology. I have experience in designing printed circuit board using Altium Designer, KiCad, researching and programming products using microcontrollers. I am a person who is willing to learn with a progressive spirit and has a sense of responsibility at work.*

## PERSIONAL

### SKILL

**Language**
- English: Advance
- TOEIC 775

**Technical Skills**
- PCB design using Altium Designer, KiCad
- C language programing
- Soldering skill
- Project management with Git

**Solfware**
- AltiumDesigner
- KiCad
- Git – Github
- Visual Studio Code
- STM32Cube IDE
- Microsoft Office

### ACADEMIC ACTIVITY

**PAY IT FORWARD CLUB-STUDENT RESEARCH LAB**
*Core Member*

**PIFKID 2023 Summer Camp**
*Lecturer, Instructor*
- Participate in teaching about desiging manual circuits, instructing of embedded projcet.

**MCU Basic Course**
*Lecturer, Instructor*
- Participate in teaching about basic concept of PCB, soldering, programing microcontroller.

### CERTIFICATE

**TOEIC LR: 775**
From Official Reperesentatives of ETS – IIG VietNam - 09/2022

**Certificate of Appreciation 2023 Summer Camp**
From Faculty of Electrical and Electronics Engineering
Ho Chi Minh City University of Technology - 08/2023

## EDUCATION

**Ho Chi Minh City University of Technology** — *09/2021 to present*

**Third-year student**, Faculty of Electrical & Electronics Engineering Electronic and Telecommunications

**Relevant course**: Embedded System Design, Applied Electronics

**Current GPA:** 7.55/10 (3.1/4)

## PROJECT EXPERIENCES

**PIF LAB CO., LTD** — Intern, PCB Designer & Solfware Developer — *05/2023 to 08/2023*

**Webserver Control household electrical appliances**
*(Link project: https://github.com/Hnit3003/Intern_PIFLAB_2023.git)*
- Deploy Web Server to control 220V load using ESP32-Wroom microcontroller
- The board ensures isolation between different source blocks (switching source, 220V of load) by opto, relay and other rules, optimizes wireless transmission capacity
- Using ESP-IDF for programing RTOS application, creating web server and handling wifi

**APPLIED ELECTRONICS** — Big project, PCB Designer & Solfware Developer — *05/2023 to 08/2023*

**Current Measurement**
*(Link project: https://github.com/Hnit3003/hardware_design_altium/tree/main/Current_Measurement)*
- Design a circuit to measure DC and AC current (range 20A, resolution 100mA)
- The circuit using OPAMP, shunt resistor other basic component to generate output voltage is linear with input current, measures to prevent overvoltage and overcurrrent
- Using STM32CubIDE for reading ADC, display current result

**EMBEDDED SYSTEM DESIGN** — Big project, PCB Designer & Solfware Developer — *05/2023 to 08/2023*

**Smart-home board Control household electrical appliances**
*(Link project: https://github.com/Hnit3003/hardware_design_altium/tree/main/Smart-home_IoT)*
- Design a embeded system to controll household electrical appliances through 3 methods: user interface with LCD, physical button and webserver
- The main board has ESP32-Wroom microcontroller, switching source block, physical interface, the output block is isolated from the control block by opto and relay
- Using ESP-IDF for progarming RTOS application

**PERSONAL PROJECT**

**Low-power Product** — Researcher, PCB Designer, Solfware Developer
*(Link project: https://github.com/Hnit3003/CH32V003F4P6_workspace)*
- Researching and testing low-power mode function of new microcontroller form WCH manufacture: CH32V003F4P6
- Making PCB and programing for product using CR1220 battery

**Buck Convertor Circuit** — PCB Designer
*(Link project: https://github.com/Hnit3003/hardware_design_altium/tree/main/Buck_Convertor_LM2596)*
- Design Buck Convertor Circuit using LM2596 can supply 2.5A current

**Touch Sensor Board** — PCB Designer
*(Link project: https://github.com/Hnit3003/hardware_design_altium/tree/main/Touch_sensor)*
- Implement IC TTP223 touch sensor board