

THIEN NGUYEN QUANG

EMBEDDED SOFTWARE ENGINEER

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Majors	Institute	Year	GPA
Computer Engineering	HCMUT	2021 - now	0.0/4.0
	Le Hong Phong High School	2018 - 2021	3.5/4.0

SUMMARY

IDK...

KEY COURSES UNDERTAKEN

Mathematics and Statistics

- Calculus, Linear Algebra, Probability and Statistics.

Computer Science

- Discrete, Math Modeling, Data Structures and Algorithms, Operating Systems, Computer Networks.

Computer Engineering

- Digital System, Logic Design with HDL, Computer Architecture, Electrical Electronic Circuits, Digital Signal Processing, Microcontrollers & Microprocessors.

TECHNICAL SKILLS

- **Tools:** Git, Pycharm, STM32CubeIDE, VSCode, Colab Notebook
- **Programming Languages:** Python, C/C++, R
- **Design:** Figma, Canva, Design, Logo Maker
- **Operating Systems:** Linux (Ubuntu)
- **Logic Design with HDL:** Verilog HDL
- **Computer Architecture:** MIPS Assembly
- **Others:** Keras, Tensorflow, Opencv-Python

PROJECTS

AI-Integrated Image Detection for Autonomous Mecanum Robot Control Dec 2023 - Jan 2024

Role - Embedded Software Engineer

[Project Link](#)

- Generate Line Detection.
- Adafruit setting and server update.
- Train AI model and Generate AI Detection.
- Design User Interface.

Technologies: Mecanum, MQTT, Adafruit_IO, Keras, Tensorflow, Opencv-Python, Tkinter, PIL, Python.

Tools: Ohstem, Pycharm, Teachable Machine, Figma, Git.

Two-way Traffic Signal System Combining with Pedestrian Buzzer Oct 2023 - Nov 2024

Role - Embedded System Engineer

[Project Link](#)

- Implement Button States.
- Modify Automatic, Manual, and Tuning Modes.
- Generate Pedestrian Scramble Mode (setting the buzzer sound).
- Connect UART.

Technologies: STM32, C.

Tools: STM32CubeIDE, TeraTerm, Git.

EXPERIENCES

Leader Mecanum Robot Project

Dec 2024 - Jan 2024

- Create a timetable and monitor it constantly to ensure that work is finished on time.
- Support my team member in training AI models and generating AI detection.
- Interact more with instructors and teaching assistants to get projects on track.
- Grasp the entire project's knowledge and coding.
- Skills: English, Communication.

University Tutor

Jan 2024 - Present

- Support a small group of university students in Microcontrollers & Microprocessors subject.
- Skills: English, Communication.

ACHIEVEMENTS & CERTIFICATIONS

Outstanding Mathematical student at municipality degree

Mar 2021

Third place

OISP Exhibition and Presentation Contest 2021

Dec 2021

Top 55 excellent community projects

IELTS 6.0

Feb 2021

CEFR Level B2