# NGUYEN THANH QUI

## Embedded Software Internship

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## JOBS AND EXPERIENCE

### Tutor and University preperation Instructor

📅 2021 – 2023

- Number of student: 10
- Subject: English, Mathematics, Physics, Programming

## PROJECTS

### Smart home with AI appication

**Members: 4**

📅 3/2023–On going    📍 Category: Multidisciplinary project

- Description: Implement a whole smart home system with Yolobit, sensors, Gateway, MQTT Pub/Sub and Appication
- Role: Leader, design user-case, class digram, control sensor nodes, transfer and receive information from Adafuit, develop UI
- Technologies and tools: Python, HTML, CSS, Js, SQL, Yolobit, IoT kit, Bootstrap, Git and Github

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### Video Streaming Application

**Members: 1**

📅 3/2023 – 4/2023    📍 Computer Network

- Description: Implement a video streaming application using TCP protocol
- Role: define functional and non-functional requirement, design class digram, implement
- Technologies and tools: Python, Git and Github

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### Multifunctional Traffic Light

**Members: 3**

📅 12/2022    📍 Category: Embedded Progamming

- Description: Implement four-way traffic lights with pedestrian feature that can switch between automatic and manual mode
- Role: Design FSM, implement automatic and manual mode
- Technologies and tools: C, Proteus, STM32cubeIDE

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### Traffic Light

**Members: 2**

📅 5/2021    📍 Category: Embedded Progamming

- Description: Implement a vending machine using Verilog
- Role: Design FSM and implement
- Technologies and tools: Verilog, ModelSim, draw.io

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## OBJECTIVE

Seeking an internship in embedded software as a skilled computer engineering student. Dedicated and ambitious, I aim to gain practical experience and develop my expertise by contributing to challenging projects. I strive to work with a dynamic team and learn from seasoned professionals, ultimately paving the way for a promising career in embedded software engineering.

## FEATURED ARTICLES

Here is an article about me published by Thanh Nien newspaper.

## EDUCATION

### High School for the Gifted - VNU
Trường phổ thông Năng Khiếu -ĐHQG TPHCM

📅 2017 – 2020

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### B.S. in Computer Engineering
HCM University of Technology - VNU
Trường đại học Bách Khoa - DHQG TPHCM

📅 2020 – Now

Entrance exam score: 27.6 - GPA: 7.2

## SKILLS

**Core skills**

- Proficient in microcontroller programming using languages such as C, in VLSI design using Verilog, familiar with assembly
- Adequate knowledge of operating system concepts, Linux, computer network architectures
- Basic understanding of virtualization technologies, such as VMWare and VirtualBox

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**Additional skills**

- Proficient in using Git and Github
- Competent in data structures and algorithms, mathematical modelling
- Familiar with Python, Software development process, some Web development technologies

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**Soft skills**

- Fluent in English

### Vending Machine
Members: 1

📅 4/2021 📍 Category: Embedded Progamming

- Description: Implement a vending machine using Verilog
- Role: Design FSM, implement and write testbench
- Technologies and tools: Verilog, ModelSim, draw.io

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### Urban Waste Collector System
Members: 7

📅 3/2023 – On going 📍 Category: Software technology

- Description: An appication to help collect urban waste effectively
- Role: define functional and non-functional requirement, design class digram and user-case, develop front-end and assigning task, finding shortest path module
- Technologies and tools: C++, HTML, CSS, JS, SQL, Figma, Git and Github

### Books Selling Website
Members: 4

📅 1/2023-2/2023 📍 Category: Website developing

- Description: Design a website to sell book
- Role: Frontend
- Technologies and tools: HTML, CSS, JS, PHP SQL, Bootstrap, Git and Github

- Adapting new technology easil
- Information searching and processing, communication and presentation, scheduling and flexibility

## AWARDS

- First prize, Second prize, Third prize in District-level Excellent Student Competition at Mathematics, Literature, English from grade 1 to 9.
- National high school exam (Kỳ thi THP-TQG) score greater than 99.74 % of students all across the country.

## STRENGTHS

Creativity and innovation   Honest
Leader

## HOBBIES

Reading Novels   New Technology
Bodybuilding

## ACTIVITIES

### Organizing committee of traditional Festival

📅 2019 📍 High School for the Gifted