

Ngo Quoc Huy

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Personal Introduction

I am currently a Junior Mechanical Engineering student at Fulbright University Vietnam. Even though I am eager to pursue knowledge in every aspect of engineering, my interests mainly focus on Mechatronics Design, IoT systems, and Automation. Most of my experience has involved building some personal project-based learning related to optimizing automation processes, being a research assistant for academic research on Structural Health Monitoring, and teaching assistant for professors in engineering-related courses.

My online portfolio with details: [qhuy291102.github.io/nqhporfolio.github.io](https://github.com/qhuy291102/nqhporfolio.github.io)

Education

Fulbright University Vietnam

Bachelor of Engineering | current GPA: 3.54

Ho Chi Minh city, Vietnam

August 2021 - May 2025 (Expected)

Quoc Hoc Hue high school for the gifted

Physics gifted student

Thua Thien - Hue, Vietnam

August 2017 - May 2020

Working Experience

Student Research Assistant

Lab Apparatus and Machine Learning Applied in Structural Health Monitoring

Fulbright University Vietnam

September 2022 - December 2023

- Collaborated in a four-member student research team under the guidance of Prof. Nguyen Hop Minh, founding engineering faculty at FUV, and Mr. Tran Thanh Thai, Associate Director of FUV Makerspace.
- Contributed to the development of an automated four-point bending frame with maximum loading up to 1000 Kg on the studied beams.
- Contributed to the development of an electrical station serving as the central processing unit, including Strain gauges, Raspberry Pi, Arduino, and Power Supply Units. The electrical station helps to gather inputs from sensors and generating control signals for motors and computers.

Student Teaching Assistant

Level 100 and 200 Engineering-related Courses

Fulbright University Vietnam

May 2022 - Current

- Hosting engineering workshops for students (Safety Guidelines, Handtools Training, Electronics and Programming, and 3D Model Design).
- Operating CNC machine, Laser cutting, and 3D Printing.
- Collaborate with professors and teaching team in administration tasks, leading the lab and discussion sessions.

Activities

Fulbright Ultimate Club - Fulbright University Vietnam

Team Captain | Event Organizer

Sport Club

May 2023 - Current

- Lead the team to win the Most Spirited Team (RMIT Tournament 2024), 3rd Place (Seacup Nha Trang 2023).
- Head of organizer for Internal Tournament 2022 and 2023: over 30 participants within Fulbright community.
- Head of organizer for Fulbright Coed Tournament 2024: over 150 participants from universities (FUV, VGU, RMIT) and organizations (Entixie Ultimate Club, Flamme Ultimate Club).

PTNK Innovation Initiative x Fulbright Makerspace

Student Mentor

Fulbright University Vietnam

Summer 2023

- Led a team of 3 high school students from High School for the Gifted VNUHCM in developing a Weather Station IoT System, overseeing system design, electronics, documentation, project management, and reported updates to the faculty supervisor.
- Conducted informative workshops on 3D modeling, 2D drawing, sensor operations, and project reporting to provide the necessary skills and knowledge to the students.

Vietnam Science and Engineering Fair - Intel ViSEF

Project Leader | Mechanical Engineering and Automation

Quoc Hoc Hue high school

2019 and 2020

- 1st place in The Provincial Science and Engineering Competition 2019 and 2020.
- 1st place in The Youth Innovation Contest 2019 and 2020.
- 4th place in The National Science and Engineering Competition Intel ViSEF 2019.
- Qualification Round's Awardee of The International Astronomy and Astrophysics Competition 2020.

Skills

3D Design and Simulation

Autodesk Fusion360, AutoCAD, Autodesk Revit, Autodesk CFD

Circuit Design

Design and Analyze PCB on Altium Designer

Manufacturing

3D Printing, Laser Cutting, CNC Operation, Heavy Handtools

Programming

Python, C++, Matlab, HTML