

# Vo Anh Quan

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📍 Ha Noi, Viet Nam

## Summary

Willing to be a Robotics Engineer, I am passionate about designing and controlling robots to serve society. My focus lies in creating bionic hands and user-friendly software interfaces to make robotics accessible to everyone. I am eager to face new challenges at the intersection of engineering. Currently, I am seeking a scholarship to study abroad in a hub for technological advancements, where I can expand my knowledge and contribute significantly to innovative engineering solutions..

## Education

**BS Hanoi University of Science and Technology**, Mechanical Engineering Sept. 2021 to Now

- GPA: 3.49/4.0
- **Coursework:** Mechanical Engineering, GD&T, Technical Drawing, Mechanics of Material, Thermodynamics, Fluid Mechanics, Control Systems.

## Laboratory Experience

**Lab 307**, Opto-Mechatronics Laboratory Feb. 2023 to Now

- As an active member of **Opto-Mechatronics Lab**, I have gained hands-on experience in various aspects of mechanical engineering skills.

## Research Experience

**Design Bionic Arm**, Roles of design arm HN, VN  
Feb. 2023 to Dec. 2023

- Research actuators for control of elbow and wrist.
- Using CAD software Onshape and Fusion 360 to redesign open source project of bionic hand "Reachy".
- Onshape help me using and design online with my team and any area with internet.
- Fusion 360 offers me generative design and I using this technique to design the bionic arm as low weight and high strength.
- Fail to design a novel bionic arm

**Shape Memory Alloys - Actuator**, Roles of Simulation and Control HN, VN  
Feb. 2024 to On-going

- Using Comsol Multiphysics software to simulate the helix-spring SMA to define the parameter of the proper helix-spring for enough force and displacement.
- Using microcontroller (Arduino) and module sensor to control voltage and current through SMA actuator.
- Making a testing system to collect data from the SMA spring - own fabricated.

## Awards and Honors

**Academic Achievement Scholarship** - Fall 2021, Spring 2022, Spring 2023, Fall 2023, Spring 2023

**Nitori International Scholarship Foundation** One of 20 talent students selected by Nitori in 2023.

**Second Prize at HUST Student Scientific Research Conference** in 2024

## Language Proficiency

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**English:** Fluent in reading, writing, and verbal communication, with extensive experience in academic and professional settings

## Skills

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Basic in programming languages: **C, Python**

Experienced in CAD software for mechanical design and simulation

Strong analytical and problem-solving skills, with a keen attention to detail

Effective communicator and collaborator, able to work in multicultural environments

## Referee

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**PhD. Nguyen Thi Kim Cuc**