Vo Anh Quan

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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 engnieering skills.

Research Experience

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

- Research actuators for control of elbow and writst.
- Using CAD sofware 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 sofware 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 facbricated.

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

Language Proficiancy

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

Skills

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

PhD. Nguyen Thi Kim Cuc