Vo Anh Quan

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Summary

As a dedicated Mechanical Engineer, I specialize in designing and controlling robotic systems, with a focus on integrating soft robotics and bionic prosthetics. My ambition is to develop advanced, user-friendly technologies, such as bionic hands and intuitive UI/UX software, that provide accessible solutions for individuals with physical disabilities. By exploring the potential of soft robotics, I aim to create more adaptive and flexible devices that closely mimic human motion, enhancing both functionality and comfort. I seek to deepen my expertise in Japan, a global leader in robotics and technology, where I plan to contribute to the development of innovative engineering solutions that bridge the gap between robotics and human needs.

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 in 2024

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