

Nhat-Minh Dzoan

 MynhLoveBunCha |  minh-doan |  doannhatminh253@gmail.com |  (+84)857950301

EDUCATION

Intelligent robotics research group

School of Mechanical Engineering, HUST

Research assistant

Dec 2022 - present

- Research area: Control strategy for underactuated robots, Fuzzy set theory, Hedge algebra theory
- Supervisor: Associate Professor Thi-Thoa Mac (thoa.macthi@hust.edu.vn)

Hanoi University of Science and Technology (HUST)

Hanoi, Vietnam

B.Eng. in Mechatronics Engineering (Advanced Programs)

Sep 2019 - Aug 2024

- First Class with Distinction (Expected graduate GPA: 3.91/4.00)

WORK EXPERIENCE

FPT AUTOMOTIVE

FPT Corporation, Hanoi, Vietnam

Summer internship

Jun 2022 - Aug 2022

- Topic: Embedded system in automotive industry

AWARDS

Best undergraduate dissertation

July 2024

- Thesis: “Research on a recursively formulated hedge algebra controller to control an inverted pendulum on a cart”
- Supervisor: Associate Professor Thi-Thoa Mac (thoa.macthi@hust.edu.vn)
- Reviewer: Doctor Hoang-Hiep Ly (hiep.lyhoang@hust.edu.vn)

Third prize at the Student Research Conference

Jun 2024

- Host: Hanoi University of Science and Technology
- Session: Applied Mathematics and Informatics

Second prize at the BK-V.IDEAS Contest

Jun 2024

- Subsidiary presentation award to the Student Research Conference
- Category: Applied natural science

Academic Scholarship for Excellent Student

Fall 2020 - Spring 2023

- Six-time recipient
- Semesterly assessment

PUBLICATIONS

1. **Nhat-Minh Dzoan**, Thi-Thoa Mac, Hoang-Hiep Ly, Xuan-Thuan Nguyen. “A Novel Hedge Algebra Controller with Recursive Semantic Values: RS-HAC and Application in Cart-pole system”. Applied Soft Computing (**submitted**)
2. **Nhat-Minh Dzoan**, Thi-Thoa Mac, Tien-Dung Pham, Hoang-Hiep Ly. “Development of hybrid controller for an affordable cart-pole system”. IEEE 11th International Conference on Computational Cybernetics and Cyber-Medical Systems (ICCC 2024), April 2024, Hanoi, Vietnam

TALKS

11th IEEE International Conference on Computational Cybernetics and Cyber-Medical Systems

Hanoi, Vietnam
Apr 2024

SKILLS

Programming language:

- Matlab (mastery)
- Python (advanced)
- Embedded C/C++ (advanced)
- Assembly for x86 architecture (intermediate)
- VHDL (beginner)

Software and Framework:

- Matlab/Simulink (mastery)
- Ubuntu/Linux (advanced)
- ROS2 (advanced)
- SOLIDWORKS (intermediate)
- PyTorch (intermediate)
- Tensorflow (intermediate)
- Intel Quartus II (beginner)

Spoken language:

- Vietnamese (Native)
- English (C1)
- German (B1)

SPECIALIZATION CERTIFICATES

Deep Learning

Coursera

Multi-course specialization

Sep 2022 - Nov 2022

- Verified at: [click here](#)
- Course Certificates Completed:
 1. Neural Networks and Deep Learning
 2. Structuring Machine Learning Projects
 3. Sequence Models
 4. Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
 5. Convolutional Neural Networks

REFERENCES

Associate Professor Thi-Thoa Mac

School of Mechanical engineering, HUST

– Email: thoa.macthi@hust.edu.vn

Doctor Hoang-Hiep Ly

School of Mechanical engineering, HUST

– Email: hiep.lyhoang@hust.edu.vn