Hengyi (Henry) Zhou

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Summary

I am a highly motivated dual degree student in mechanical engineering (SJTU) and computer engineering (Umich), interested in robotics (both algorithm and hardware). I plan to explore the interdisciplinary area and apply for a Ph.D. degree in the future.

Education

University of Michigan Ann Arbor, MI
Bachelor of Computer Engineering (Expected) *Aug. 2025 – May 2027*

- Overall GPA: 4.00/4.00

Shanghai Jiao Tong University (SJTU) Shanghai, China
Bachelor of Mechanical Engineering (Expected) *Aug. 2023 – May 2027*

- Overall GPA: 3.81/4.00, rank top 10/69

Experience

Undergraduate Research Intern at the lab led by Prof. Ye Zhao Aug. 2026 – present
Project: Medical Dextrous Manipulation *Georgia Tech*

- RL fine tune for dextrous manipulation

Undergraduate Research Intern at the lab led by Prof. Sean Huang Jul. 2026 – present
Project: Kresling Origami Sensor *Umich*

- Lead the project, ongoing

Undergraduate Research Intern at the lab led by Prof. Sean Huang May. 2026 – present
Project: Self-Consistent Neural Control *Umich & UCLA*

- Lead the project
- Under review by AAAI 2027

Undergraduate Research Intern at the lab led by Prof. Sean Huang Jan. 2026 – May. 2026
Project: Neural Control: Adjoint Learning Through Equilibrium Constraints *Umich*

- Modified neural network architectures to adapt to the control task
- Conducted large-scale experiments and benchmark comparisons to evaluate model performance
- Accepted by ICML 2026

Undergraduate Research Intern at the lab led by Prof. Chao Li Jan. 2025 – Jun. 2025
Project: A Prefetch-Enhanced Cache Reuse System for Low-Latency RAG Serving *SJTU*

- Designed and implemented elimination algorithms
- Conducted extensive experiments and benchmark comparisons
- Accepted by TACO(ACM Transactions on Architecture and Code Optimization)

Projects

ME3500J Project | *Solidworks, Python, Raspberry Pi* May 2025 – Aug. 2025

Project: ME3500J Project – A Self-locking Multi-Diameter Cylindrical Column Climber

- Designed an dual-wheel stabilization structure by SolidWorks and 3D-printed, which can climb stably on rough surfaces
- Wrote the control programs and debugged on Raspberry Pi
- Wired, soldered, assembled, and tested the climber
- See the demonstration video for more information on https://youtu.be/lMugocoG81E

Teaching Experience

Grader for Intro to Signals and Systems — Jan. 2026 – May. 2026
Umich

Teaching Assistant for Intro to Engineering — May 2025 – Aug. 2025
Lecturer: Prof. Yanfeng Shen — *SJTU*

Honors & Awards

Wang Chu Chien-Wen Research Award — Apr. 2026
University of Michigan

Jackson and Muriel Lum Scholarship & Fellowship — Jul. 2025
University of Michigan & Shanghai Jiao Tong University

Yu Liming Scholarship — Nov. 2024
Shanghai Jiao Tong University

Mathematical Contest in Modeling – Honorable Mention — Jun. 2024
Consortium for Mathematics and Its Applications

Technical Skills

Languages: C/C++, Matlab, Python
Tools: Git, SolidWorks, WaveForm, Arduino, CubeIDE, Keil5, LabVIEW, Mathematica
Libraries: pandas, NumPy, PyTorch, JAX

Exchange

University of Navarra — Jan. 2025 – Feb. 2025
Courses Taken: Espanol inicial: Comunicación y Cultura, Software Engineering — *Navarra, Spain*

Korean University — Dec. 2023 – Jan. 2024
Courses Taken: Introduction to Artificial Intelligence, Korean Entertainment — *Seoul, South Korean*

Services

Minister of the JI Youth Volunteer Team — May 2024 – May 2025
Shanghai Jiao Tong University — *Shanghai, China*

Student Advisor in UMJI Advising Center — Mar 2025 – present
Shanghai Jiao Tong University — *Shanghai, China*