

# Hengyi (Henry) Zhou

[hengyizh@umich.edu](mailto:hengyizh@umich.edu) [Website](#)

## 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

*Bachelor of Computer Engineering (Expected)*

- Overall GPA: 4.00/4.00

Ann Arbor, MI

Aug. 2025 – May 2027

### Shanghai Jiao Tong University (SJTU)

*Bachelor of Mechanical Engineering (Expected)*

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

Shanghai, China

Aug. 2023 – May 2027

## EXPERIENCE

---

### Undergraduate Research Intern at the [lab](#) led by Prof. Sean Huang

Jan. 2026 – present

*Project: Data Driven Spider-net Tactile Sensor*

*Umich*

- Built the simulation pipeline by integrating a C-based simulator with Python driver scripts
- Collected and implemented mesh generation algorithms and conducted preliminary experiments
- Under review by ICML

### Undergraduate Research Intern at the [lab](#) led by Prof. Sean Huang

Oct. 2025 – Feb. 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
- Under review 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

*University of Michigan*

Apr. 2026

### Jackson and Muriel Lum Scholarship & Fellowship

*University of Michigan & Shanghai Jiao Tong University*

Jul. 2025

### Yu Liming Scholarship

*Shanghai Jiao Tong University*

Nov. 2024

### Mathematical Contest in Modeling – Honorable Mention

*Consortium for Mathematics and Its Applications*

Jun. 2024

## TECHNICAL SKILLS

---

**Languages:** C/C++, Matlab, Python, Java, JavaScript

**Tools:** Git, SolidWorks, WaveForm, Arduino, CubeIDE, Keil5, LabVIEW, Mathematica

**Libraries:** pandas, NumPy, PyTorch

## EXCHANGE

---

**University of Navarra**

*Courses Taken: Espanol inicial: Comunicación y Cultura, Software Engineering*

Jan. 2025 – Feb. 2025

*Navarra, Spain*

**Korean University**

*Courses Taken: Introduction to Artificial Intelligence, Korean Entertainment*

Dec. 2023 – Jan. 2024

*Seoul, South Korean*

## SERVICES

---

**Minister of the JI Youth Volunteer Team**

*Shanghai Jiao Tong University*

May 2024 – May 2025

*Shanghai, China*

**Student Advisor in UMJI Advising Center**

*Shanghai Jiao Tong University*

Mar 2025 – present

*Shanghai, China*