

Zihao Ye

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EDUCATION

Zhejiang University

Sep.2021 - Jul.2025

- Bachelor of Mechanical Engineering (B.D.)

- Current GPA: 3.703/4.0 Rank: 14/47
- Major Courses: Introductory Dynamics, Introductory Solid Mechanics, Computer-Aided Design, Intro to Electronics, Mechanical Engineering Seminar, Finite Element Analysis, Analog Signal Processing.

University of Illinois Urbana-Champaign

Sep.2021 - Jul.2025

- Bachelor of Mechanical Engineering (B.D.)

- Current GPA: 3.93/4.0
- Major Courses: Fundamentals of Fluid Dynamics, Dynamics of Mechanical Systems, Electrical and Electronic Circuits, Engineering Materials, Signal Processing, Thermodynamics, Statics, Statistics and Probability, Mechanical Design, Design for Manufacturability.

PROJECT EXPERIENCES

Micro Nano Super-Control Robot

Jun.2022 - Jul.2022

- Supervisor: Prof. Yong He, ZJU

- Optimize the positional algorithm for detection and the drug delivery devices.
- Read and digitally simulated the attitude of the drug delivery device in space.
- Build a platform for reading and displaying position and attitude data of drug delivery device.

Quadruped Robot

Jan.2024 - Present

- Supervisor: Prof. liangjing Yang, ZJUI

- Engaged in the Underactuated Robotics course and ROS course at MIT.
- Control of coordinated motion as well as perception during the work of a quadruped robot.
- Assembled a basic four-legged robot model and conducted a simple walking simulation utilizing Simulink.
- Revisited the assembly of a basic four-legged robot model and executed another walking simulation using Simulink.

Development of an automated cutter for individuals with hand disabilities

Aug.2023 - Dec. 2023

- Supervisor: Prof. Hsiao-Wecksler, Elizabeth, UIUC

- Contributed to the functional modules and modeling for the design of automatic cutting machines for people with disabilities.
- Contributed to detail functionality as well as physical fabrication.
- Executed the assembly of all components of the unit, ensuring seamless integration and functionality.
- Utilizes linkage and tracker software to predict and analyze blade trajectories to ensure accuracy and safety.

Design of Automatic Crotch Dribbling Robot Structure Device

Sep. 2022 - Jan. 2023

- Supervisor: Prof. Timothy Haw-Yu Lee, ZJUI

- Simulate the movement of dribbling between the crotch using the relationship between mechanical structures.
- Calculate and design various connectors and simulate their rationality.
- Realize automated mechanical structure simulation.
- Implement physical functions and provide modification suggestions.

COMPETITIONS & REWARDS

S prize in American Mathematical Modeling Competition

Jan.2024

Served as the primary modeler, using big data, to build mathematical models to assess the link between insurance and disasters in each area and analyze it.

Dean's List Selection for Grainger College of Engineering in UIUC

Feb.2024

Recognizes outstanding undergraduate students in the Grainger College of Engineering who are in the top 20% of their academic performance.

ZJUI College Undergraduates Awarded for Academic Excellence Pioneer

Jun.2023

Academic progress is evident during the school year.

Zhejiang University Scholarship – Third Prize

Jun.2023

An award given based on academic performance during the academic year.

Second Prize in Structural Competition, Zhejiang University

Apr.2022

Using Midas modeling software, the bridge structure was designed and simulated to carry the load, and then a model of the bridge was created using the specified materials for testing.

- **Third Prize in Concrete Dragon Boat Competition of Zhejiang University**

Jun.2022

Participated in designing the dragon boat design, using concrete, carbon fiber and other materials for fabrication and motion analysis to create a model of a remote-controlled dragon boat that can be used properly.

- **Participation in Zhejiang Provincial Structural Competition**

Apr.2022 – Jun.2022

Serve as a key member of the team in design and production.

- **ZJUI College Undergraduates Awarded for Innovation and Entrepreneurship**

Jun.2022

Participate and excel in competitions during the academic year.

SKILLS

- **Modeling:** Fusion 360, Solidworks, Midas
- **Programming:** Python, Rstudio, Arduino, MATLAB, ROS
- **English:** 130 points of Duolingo, Good Communication ability
- Active thinking and strong innovation ability

DUTIES

ME 2101 Propaganda Committee

Timely dissemination of relevant school policies. Organize meaningful and relevant activities for students in the classroom and outside the classroom.