

Yixuan Wang

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Education

Shanghai Jiao Tong University

Bachelor of Mechanical Engineering at SJTU-UM Joint Institute
GPA: 3.86/4.00

Minhang District, Shanghai
July 2017 – August 2021

University of Michigan

Bachelor of Computer Science at College of Engineering
GPA: 4.00/4.00

Ann Arbor, Michigan
September 2019 – April 2021

Computer Skills

Language: C++, Matlab, C, Python

Applications: LaTeX, CATIA, Origin, Adobe InDesign, SolidWorks, Arduino, Adobe Photoshop, LabVIEW, OpenCV

Research and Project

University of Michigan Compliant Systems Design Laboratory

Soft Robot Measurement

- Detect the strain field of soft robot using digital image correlation
- Conduct texture segmentation on soft robot images based on Gabor filters
- Build soft robot control system with feedback control based on soft robot images

Ann Arbor, Michigan
September 2019 – present

Design and Manufacturing II

Vehicle based on transformable wheels and caterpillar bands

- Designed the structure of transformable wheels and the whole vehicle based on four-bar linkage
- Wrote the code for controlling and auto turning based on Arduino

Minhang District, Shanghai
May 2019 – August 2019

Mechanical Laboratory I

Young's modulus measurement based on accelerometer

- Modeled the vibrating beams based on the second-order ordinary differential equation
- Proposed and analyzed a new way of measuring Young's modulus

Minhang District, Shanghai
May 2019 – August 2019

Design and Manufacturing I

Soft Grasper

- Designed the structure of soft grasper using gel and 3D-printed mold
- Wrote the code for controlling based on Arduino

Minhang District, Shanghai
February 2019 – May 2019

Experience

SJTU-UM Joint Institute

Teaching Assistant of Honor Physics I (classical mechanics)

Teaching Assistant of Honor Calculus I (one-dimensional calculus)

- Organized recitation class and office hour to promote students' understanding of course
- Graded the assignment and examination to judge level of students fairly

Minhang District, Shanghai
May 2019 - August 2019
September 2018 - December 2018

SJTU-UM Joint Institute Advising Center

Advisor

- Advised freshmen on developing study skills and choosing majors
- Organized workshop on career development, such as internship and research, according to needs of students

Minhang District, Shanghai
September 2018 - August 2019

Honors

B-level Scholarship

Fall 2019

Lums Scholarship

Summer 2019

National Encouragement Scholarship

Fall 2018

Bronze Medal in University Physics Competition

Fall 2018

The John Wu & Jane Sun Sunshine Scholarship

Fall 2018

Merit Student

Fall 2018

B-level Scholarship

Fall 2018

Yu Liming Scholarship

Fall 2017