

# HAOJIN CHEN

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*I am a second-year undergraduate student at UC San Diego majoring in mechanical engineering. I have working knowledge of computer-aided design through coursework and research skills through R&D and lab experience. I strive to gain more engineering experience through college and internship opportunities.*

## Education

*Expected June 2022*

**Mechanical Engineering, B.S.: UNIVERSITY OF CALIFORNIA SAN DIEGO**

**GPA:** 3.847

### Relevant Courses:

**Engineering:** Introduction to Structures and Design, MATLAB Programming for Engineering Analysis, Graphical Communication for Engineering Design, Elements of Material Science, Vector Calculus, Thermodynamics, Kinematics, Linear Circuits

**Spring 2020:** *Dynamics and Vibration, Solid Mechanics I, Probability and Statistics*

**Achievements:** Structural Engineering Civil Term Project Competition 1<sup>st</sup> Place (Projects)

## Technical Skills

**Software:** SolidWorks, AutoCAD, MATLAB, Microsoft Office Suite, Adobe Lightroom

## Projects

*April 2019 – June 2019*

**Design and SolidWorks Specialist: SE 3 – RUBE GOLDBERG TERM PROJECT COMPETITION - UCSD**

- Designed a Rube Goldberg machine using SolidWorks and AutoCAD
- Built the Rube Goldberg with both Fischertechnik and custom 3D-Printed and laser-cut part
- Created construction and operational drawings and technical poster presentation for our design

*November 2018 – December 2018*

**Design and Calculation Specialist: SE 1 – CIVIL-STRUCTURES TERM PROJECT COMPETITION - UCSD**

- Designed retrofit for a balsa structure model to resist excitation from an earthquake simulation
- Performed calculation analysis of the design for the formal technical report and oral presentation

*June 2018 – August 2018*

**R&D Project Lead: PILOT CITY - DRONE PILOT PROJECT - SAN LEANDRO, CA**

- Performed R&D on drone hardware and software capabilities relating to road evaluation
- Created test procedures and best practices for the intended purpose
- Wrote and presented findings to *City of Fremont: Public Works Department*

## Professional Experiences

*October 2019 – February 2020*

**Financial Office Assistant: VETERANS MEDICAL RESEARCH FOUNDATION - LA JOLLA, CA**

- Digitized and organized physical documents for company ease of access
- Entered financial data for company expenditure

*June 2019 – August 2019*

**Laboratory Technician: ASPIRING SCHOLARS DIRECTED RESEARCH PROGRAM - FREMONT CA**

- Supervised student laboratory research by maintaining proper safety practices
- Prepared laboratory for research by tracking supply inventory and maintaining equipment
- Organized research and workshoping events

*October 2017 – March 2018*

**Student Volunteer Intern: CITY OF FREMONT: IT DEPARTMENT - FREMONT, CA**

- Learned and practiced cybersecurity fundamentals by looking for suspicious network activities
- Help established a city council online streaming system to broadcast and record public meetings
- Maintained records of the installation process for future employee references