

Ashley Chin

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EDUCATION

University of California, Irvine

Expected Graduation - June 2028

- Mechanical Engineering B.S

GPA - 3.5/4.0

Relevant Coursework: Computer-Aided Design, Intro to MATLAB, Statics, Principles of Materials Science, Electric Circuits

Mountain View High School

Mountain View, CA

TECHNICAL SKILLS

Software - Solidworks, Matlab, Microsoft Products, Davinci Resolve

Hardware - 3D printing, Laser Cutting

PROJECTS EXPERIENCE

Vertical Flight Society | SOLIDWORKS, Fabrication

Jan 2025 - Present

Airframe Subteam Member

- Developed and Manufactured UCI's eVTOL vehicle for AIAA's Design Build Fly Competition
- Modeled the horizontal stabilizers with working elevators to ensure that the aircraft have enough lift
- Optimized our previous aircraft by trial and error of different manufacturing methods, such as experimenting with Monokote and 3d Printing

Quality of Life Project | MATLAB

March 2025

Team Lead

- Lead a team of 4 in developing a MATLAB program that conducted high scale analysis and predictions of data subsets gathered from different life factors that followed normal distributions
- Compared amongst 10+ factors and qualifications and found the factors that generally were associated with a higher quality of life
- Conducted over 20 hours of iterative testing and debugging, resulting in 5th place of 30+ teams

Tow Mater | SOLIDWORKS, FEA, Davinci Resolve

May 2025

Personal Project

- Designed a scaled, photorealistic Tow Mater from Pixar's Cars with fully functional pulleys as well as a boom arm
- Experimented with reference images and different surface modelling techniques, such as sweeps, lofts, revolved surfaces and more
- Created a video of my project using Davinci Resolve, implementing animations from SOLIDWORKS of both the model as well as FEA on the boom arm

WORK EXPERIENCE

World Martial Arts

Jan 2022 - Sept 2024

Martial Arts Instructor

- Independently lead classes up to 20 students ages 4 and up martial arts including children with special needs
- Held private lessons for introductions and to give individual attention to struggling students

Office Manager

- Clerical work, Merchandise orders and fulfillment
- Answered phone calls and emails about our program, talked to families and prospective students
- Inputted and renewed membership contracts on Member Solutions
- Trained students to become instructors and work the office
- Designed and created monthly calendars and merchandise displays

ACTIVITIES

American Society of Mechanical Engineers

Sept 2024 - Present

Design Build Fly

Jan 2025 - Present

Chinese Association Tricking Team

Sept 2025 - Present