

UCLA B.S. Aerospace Engineering student with experience in working on engineering projects. Currently seeking opportunities to apply skills in engineering for the Summer of 2024.

## EXPERIENCE

### UCLA [Taira Lab](#) Undergraduate Research Assistant

**June 2023 — Current**

- Visualizing CFD simulation data over varying wings using ParaView software.
- Using MATLAB and Blender to interpret and manipulate the CFD data, and export as 3D printable .obj, .stl, and .fbx files.
- 3D printing prototypes of the visualized flow and outsourcing to companies to 3D print the colored visualized flows.
- Beginning work on analyzing flight data from a tailless UAS

### Design/Build/Fly at UCLA (DBF)

**Sept. 2022 — Current**

- Member of a team that designed and assembled a remote-controlled airplane, placed in the annual [AIAA Design/Build/Fly Competition](#) to complete a series of missions.
- Helped manufacture and assemble different components of the airplane.
- Placed 15<sup>th</sup> against 81 competing universities in the most recent competition.

### UCLA Engineering Courses: E96R Rocket Design & E96A Plane Design

**Sept. 2022 — Mar. 2023**

- Enrolled in voluntary, hands-on engineering courses to further my understanding of engineering principles.
- Assumed lead roles in designing, testing, and assembling model rockets and a remote-controlled plane.
- Ran COMSOL CFD simulations to analyze lift and drag over different airfoils.
- Placed in class competitions and won highest apogee award and fastest & most maneuverable plane awards.

### UCLA Transfer Programs: Basic Training

**June 2022 — July 2022**

- Enrolled in a series of courses to learn how to create a personal website and utilize engineering tools such as Arduinos, SolidWorks, GrabCAD, 3D printers, and much more.
- Implemented these tools to design, test, and assemble personal projects. Currently using these skills to design, 3D print, and test components for a drone I hope to finish building by the fall.

### Saddleback College Mars Rover Team

**Jan. 2022 — June 2022**

- Member of team that created a rover from the ground up that was capable of driving autonomously, navigating a maze, picking objects up, and analyzing dirt samples for evidence of life.
- Helped design and 3D model inner components of the rover's chassis and helped assemble the rover.
- Contributed to the repeated testing of the rover prior to it being placed in an international, intercollegiate competition ([University Rover Challenge](#)).

### Personal Website, Computer Programs, and Personal Projects

**Oct. 2020 — Current**

- Recently designed, 3D modeled and printed, and developed an RC drone from scratch.
- Ground up development of personal website using HTML and CSS.
- Developed multiple programs in C++ such as simple games, documentation and sorting programs to log users and participants, and money management programs that consider a user's tax bracket to help calculate their expected income and expenses.
- Regularly use SolidWorks to 3D model projects for later 3D printing or laser cutting.

## EDUCATION

### University of California, Los Angeles (UCLA)

**Bachelor of Science — Aerospace Engineering** GPA: 4.00/4.00

**Expected Graduation: Fall 2024**

**Relevant Coursework:** Rocket Propulsion Systems, Astronautics (Currently Enrolled), Aircraft Propulsion Systems (Currently Enrolled), Aerodynamics, Fluid Mechanics, Modeling and Analysis of Dynamic Systems, Thermodynamics, Transfer Phenomena (Currently Enrolled), Statics & Strengths of Material, Dynamics of Rigid Bodies, Rocket Design, Plane Design MATLAB, C++

**Note:** I have applied to simultaneously complete my B.S. and M.S. in Aerospace Engineering at UCLA and am waiting to hear back.

## EXTRACURRICULARS AND AWARDS

**Tau Sigma Academic Honor Society** — Member of UCLA honor society

**May 2023 — Current**

**Phi Theta Kappa Academic Honor Society** — Graduated Magna Cum Laude

**April. 2020 — Current**

**Saddleback College Tutor** — Computer Science Class Tutor (C++), Physics, Chemistry, and Mathematics Tutor

**Aug. 2019 — May 2022**