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# Chris McCormick

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UCLA M.S. Aerospace Engineering student with research experience in applying uncertainty quantification (UQ) to analyze and process flight data for D90, a tailless UAS. Also have hands-on experience in designing and building quadcopters and RC airplanes.

## EDUCATION

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

**Bachelor of Science – Aerospace Engineering** GPA: 3.98/4.00, Summa Cum Laude

Graduated: **Fall 2024**

**Master of Science – Aerospace Engineering** GPA: 3.90/4.00

Expected Graduation: **Winter 2026**

## PROJECTS & EXPERIENCE

### UCLA Taira Lab Undergraduate & Graduate Student Researcher

June 2023 — Current

- Working with Prof. David Williams at Illinois Institute of Technology to construct tailless flight dynamic equations for D90.
- Using uncertainty quantification optimization methods to analyze flight data and construct accurate aerodynamic models.
- Applying Markov Chain Monte Carlo (MCMC) methods to add robustness to the UQ optimization approach.
- Using Morris Screening global sensitivity analysis to find significant parameters within each proposed model.
- Utilizing MATLAB and Simulink to process flight data and model the control systems onboard D90.
- Processed CFD data and constructed 3D printable files of different airflows over straight and swept wings.

### UCLA Engineering Plane Design

Jan. 2023 — Mar. 2023

- Lead a team of students in designing, testing, and assembling a remote-controlled airplane.
- Learned and improved communication and organizational skills, allowing my team to overcome a multitude of challenges.
- Modeled the entire airplane in SolidWorks, 3D printed different parts, and learned how to operate a foam cutter.
- Placed in class competitions and won the award for the fastest airplane.

### Personal RC Drone Project

June 2023 — Sept. 2023

- Conducted copious amounts of research prior to selecting each component of the drone.
- 3D modeled drone frame in SolidWorks, and 3D printed with personal 3D printer.
- Learned how to solder and configure and optimize the drone for different flying styles.
- Studying to take HAM Amateur Radio License exam so I can attach a VTX chip and camera to the drone.

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

Sept. 2022 — June 2022

- Contributed to the design and assembly of a remote-controlled airplane placed in an [intercollegiate AIAA competition](#).
- Learned how to run and analyze CFD simulations on different airfoil and wing designs using COMSOL.
- Manufactured and tested the vertical and horizontal stabilizers on the airplane.
- Placed 15<sup>th</sup> against 81 competing universities in the most recent competition, the highest ever ranking UCLA history.

### UCLA Engineering Rocket Design

Sept. 2022 — Dec. 2022

- Formed a team of students to design, assemble, test, and launch two model rockets.
- Conducted research on rocket design and communicated my understanding to my teammates.
- Learned how to operate a laser cutter and improved my 3D modeling and 3D printing skills.
- Placed in class competitions and won the award for the highest apogee, with our second rocket achieving ~3200 ft.

### Personal Coding Projects

Jan. 2022 — Current

- Developed my personal website from the ground up using HTML, CSS, and JavaScript.
- Written multiple programs in C++ to calculate expenses, calculate income, play games, and more.
- Asked to and became a C++ class tutor for a previous professor of mine.
- Learned how to program an Arduino Uno and use it to conduct different light displays.

### Saddleback College Mars Rover Team

Jan. 2022 — June 2022

- Joined the Chassis and Electrical teams and helped assemble a remote-controlled rover.
- Designed and 3D modeled inner components and electrical housing boxes within the rover's chassis.
- Helped in the repeated testing of the rover prior to competition.
- Entered an international, intercollegiate [University Rover Competition](#).

## EXTRACURRICULARS AND AWARDS

**SoCal Fluids Research Conference Presenter** – Presenting my research at the SoCal Fluids research conference. **April 2025**

**Taira Lab Outreach Events** – 3D printed various mechanisms to teach high school students fluid mechanics **Nov. 2023 — Current**

**Tau Sigma Academic Honor Society** – Member of UCLA honor society **May 2023 — Current**

**Phi Theta Kappa Academic Honor Society** – Member of academic honor society **April. 2020 — Current**

**Saddleback College Tutor** – Computer Science Class Tutor (C++), Physics, Chemistry, and Math Tutor **Aug. 2019 — May 2022**