

Incoming 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 2023.

## SKILLS

**Tools and Understanding**    **Advanced:** SolidWorks/AutoCAD, C++, MS Excel, GrabCAD, OpenRocket  
                                          **Proficient:** MATLAB, CFD, Python, C, HTML/CSS, Github

## EXPERIENCE

### **Design/Build/Fly at UCLA (DBF)** **Sept. 2022 — Current**

- Member of a team that is designing and assembling a radio-controlled airplane, that will be placed in an annual intercollegiate competition to complete a series of missions ([AIAA Design/Build/Fly Competition](#))
- Learning and using MATLAB, XFOIL, and SimScale for CFD to design and analyze different aerodynamic surfaces to be used on the plane; using SolidWorks to 3D model surfaces and components

### **UCLA Engineering Courses: E96R Rocket Design & E96P Planes** **Sept. 2022 — Current**

- Placed on a small team to design, 3D model and analyze, and launch two rockets after excessive research and testing
- First rocket was completely 3D printed, designed with a simple detachable nose cone and deployable parachute
- Experimented with new materials and learned from the faults in the first rocket to design the second rocket
- Second rocket created with a fiberglass lay-up for the body tube, laser cut wood fins and engine mounts, 3D printed a more aerodynamic nose cone, and incorporated a new altimeter and 3D printed boat tail – all to reduce weight and achieve maximum speed and apogee
- Second rocket exceeded expectations, achieving a 3200 ft apogee and maximum speed of about 0.5 Mach
- Currently enrolled in a class where I will design radio-controlled airplanes with a small team of students

### **UCLA Transfer Programs: Basic Training** **June 2022 — July 2022**

- Took multiple courses on creating a personal website and utilizing engineering tools such as Arduinos, SolidWorks, GrabCAD, 3D printers, and much more
- Implemented these tools to design contraptions, structures, and to make performing certain tasks easier (like setting up Christmas lights)

### **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](#))

## PROJECTS

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

- Ground up development of personal website using HTML and CSS ([chrismccormick.github.io](https://chrismccormick.github.io))
- 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
- Have used SolidWorks to 3D model a multitude of trinkets and objects to later be 3D printed or laser cut

## EDUCATION

### **University of California, Los Angeles**

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

*Expected Graduation: Spring 2024*

### **Saddleback College, Mission Viejo**

**Associate of Science – Physics**    GPA: 3.92/4.00

**Aug. 2019 — May 2022**

**Associate of Science for Transfer – Physics**    GPA: 3.92/4.00

**Aug. 2019 — May 2022**

**Associate of Arts – Mathematics**    GPA: 3.92/4.00

**Aug. 2019 — May 2022**

**Associate of Science for Transfer – Mathematics**    GPA: 3.92/4.00

**Aug. 2019 — May 2022**

**Associate of Arts – General Studies: Natural Sciences**    GPA: 3.92/4.00

**Aug. 2019 — May 2022**

## EXTRACURRICULARS AND AWARDS

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

**Aug. 2019 — May 2022**

**Saddleback College Honors Program – Graduated Magna Cum Laude**

**Aug. 2019 — May 2022**