

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++, OpenRocket, GrabCAD, MS Excel
 Proficient: MATLAB, CFD, Python, C, HTML/CSS, Github

PROJECTS

Design, Build, Fly at UCLA (DBF)

- Member of a team that is designing and assembling a radio-controlled airplane, from the ground up, that will be placed in an intercollegiate competition to complete a series of tasks
- Currently using MATLAB, CFD, and XFOIL to design and analyze different aerodynamic surfaces to be used on the plane (wings and nose), using SolidWorks to create these components and further analyze them

UCLA Engineering Course: E96R Rocket Design

- Designed, 3D printed, and launched a model rocket after conducting much research and through using the applications OpenRocket and SolidWorks
- Currently in the process of designing and assembling another, larger, rocket with a team of 4 other students using the same applications and with more research
- Experimenting with different assembly methods, different construction materials, and different component designs and sizes to achieve maximum speed and apogee, and a good stability
- Coding and wiring an altimeter and a launch switch with an Arduino microcontroller, to be used during launch

Personal Website and Computer Programs

- Ground up development of personal website using HTML and CSS (chrismccormick.github.io)
- Developed multiple programs in C++ such as 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

Saddleback College Mars Rover Team

- 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 signs of life
- Helped design parts of the rover's chassis and helped assemble parts for the rover's chassis, drivetrain, and arm
- Contributed to the repeated testing of the rover prior to it being placed in competition with rovers designed by students from some of the most prestigious universities in the world

EXPERIENCE

Basic Training

June 2022 — July 2022

UCLA Transfer Programs

Los Angeles, CA

- 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)

EDUCATION

University of California, Los Angeles

Bachelor of Science – Aerospace Engineering

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