Chris McCormick

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LinkedIn
chrismccormick45.github.io

UCLA Junior 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 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)
- 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**