

CHARLES “HENRY” MARSOM

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EDUCATION

University of California at Berkeley

Bachelor of Engineering in Mechanical Engineering

GPA

Aug. 2025 – May 2029

2025 - 2029

3.84

TECHNICAL SKILLS

Technical Skills: CAD, 3D Printing, Solar PV, CNC Machining, Machine Learning, Scientific Research Writing

Interpersonal skills: Communication Skills, Project Management, Team Collaboration, Team Leadership

Programming Languages: Python, MATLAB, HTML

EXPERIENCE

GRU Space (YC W26)

Mechanical Engineering Intern

Feb 2026 – May 2026

San Francisco, CA

- Designed multiple subsystems for V1.0 lunar payload in preparation for YC Demo Day
- Design and rapidly prototype V1.1 lunar payload, set to go to the moon in 2027
- Create database for part tracking to optimize workflow and keep CAD organized

Computational Axial Lithography (CAL) Lab

Open CAL Project Hardware Design Engineer

Sept. 2025 – Present

Berkeley, CA

- Create an open source version of CAL, simplify on other variations
- Design the vial system of the assembly, improve the rotation system and eliminate any vial wobble
- Prototype various attachment and mounting systems as one of the main manufacturers for the vial system

Space Technologies at CAL

Quantum CubeSAT Mechanical Design Engineer

Sept. 2025 – Present

Berkeley, CA

- Reassemble and remodel the Quantum CubeSAT to prepare for launch
- Create engineering drawings to model payload and other assemblies
- Help with battery testing and other on the ground simulations

Formula Electric Racing at Berkeley (FSAE)

General Member - Aerodynamics Focus

Oct. 2025 – Present

Berkeley, CA

- Conduct finite element analysis in SolidWorks for recruitment project
- Design back wing mount in SolidWorks for recruitment project
- Use Ansys Fluent to observe the aerodynamics of wings for recruitment project

CITRIS and the Banatao Institute

Mechanical Engineering Intern

March 2024 – March 2025

Davis, CA

- Created a simplified solar cell sun tracking structure using Arduino Uno
- Designed, 3D modeled (with CAD), and assembled photo-resistors and rotating solar cells on a Plexiglass frame
- Contributed to the rotation code in C++ and helped to document progress

1678 Citrus Circuits FRC Robotics Team

Hardware Design Engineer

Aug. 2022 – June 2025

Davis, CA

- Designed, 3D modeled (with CAD), and assembled robots to compete in FRC competitions
- Manufactured robot parts on CNC router and 3D printed with Bambu and Prusa
- Mechanism subsystem lead for 2+ years and prototyping group lead for 2+ years

PUBLICATIONS

Publication by IEEE Xplore | Publication

Feb. 2024

- Created a benchmark to evaluate Large Language Models in the world of Data Science.
- Used toy datasets and questions to see whether or not a simple LLM would be able to complete data science tasks.
- Information and results could be applied to later models. Accepted to ICAIC-2024 conference. Published to IEEE Xplore.