

Ansh Pradhan

Phone: 818-486-9164 | Email: aapradha@ucsd.edu | San Diego, CA 92123 | [linkedin.com/in/ansh-p-67203b108](https://www.linkedin.com/in/ansh-p-67203b108)

EDUCATION

University of California, San Diego

Bachelor of Science: Aerospace Engineering with a minor in Business

GPA: 3.5

Expected Year of Graduation: 2023

EXPERIENCE

Rocket Propulsion Laboratory, UC San Diego – Engineering Team Lead

September 2019 – Present

Current Role: Avionics Team Lead (2021-2022)

- Established a formal avionics team for the Phoenix Rocket team.
- Redesigned CAD and Altium designs from the Marginal Stability sub-team to fit the phoenix rocket.
- Oversaw members from both sub-teams to produce necessary boards and software for Phoenix avionics system.

Role: Propulsion Team Member (2020-2021)

- Designed an ignitor stand that was cost efficient and simple to reproduce. Design was selected to be used in rocket.
- Restructured previous injector CAD model to optimize for design changes and solve air flow issues.

Role: New Member Project Team Member (2019-2020)

- Programmed an Arduino nano to collect temperature, altitude, and pressure data while in flight and write to a SD card attached.
- Programmed an Arduino nano to release a shock charge to begin the recovery process for the rocket.
- Created a circuit connecting the motherboard to the Arduino nano that was able to fit in the tube of the rocket.
- Executed simulations on rocket and wrote a bill of materials.

Tutors and Friends, San Diego – Tutor

September 2021 – Present

- Tutoring high school level and college level students in multiple subjects including calculus and SAT/ACT work.

Ace It Tutoring and Test Prep, Woodland Hills – Tutor

February 2019 – June 2019

- Monitoring, coaching, and supporting students of all grade levels with their schoolwork.
 - Proctoring mock SAT exams.
 - Actively interacting with students to gauge their understanding of certain concepts.
-

SKILLS

SolidWorks, Django, HTML, Bootstrap 4, Python, MATLAB, AutoCAD, Wiring and Circuits, Soldering, Microsoft Office, Tableau, OpenRocket

RELEVANT COURSEWORK

MATLAB, Fluid Mechanics I, Solid Mechanics I, Mathematical Physics, Spacecraft Guidance, Linear Algebra, Statics, Aerospace Materials, Dynamics, Thermodynamics, Engineering Computational Methods