

# Ashley Perez

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## EDUCATION

### California State Polytechnic University, Pomona - B.S in Aerospace Engineering

August 2018 - May 2022

- 3.34 GPA
- Dean's List Honoree Fall 2020, Fall 2021, Spring 2022
- Undergraduate Missiles, Ballistics, and Rocketry Association (UMBRA) Member

## EXPERIENCE

### NASA Student Launch — *Parachutes Team Lead*

July 2021 - May 2022

- Calculated rocket descent time, kinetic energy, velocity, parachute size, and drift at various winds using MATLAB.
- Calculated best parachute shapes and materials using trade matrices.
- Wrote a proposal, PDR, CDR, and FRR with teammates about project approach.
- Delegated tasks to parachute team members to optimize group productivity and monitored team progress while enforcing deadlines.
- Delivered accurate information to the entire team through presentations.
- Presented our findings to Northrop Grumman, Lockheed Martin, and NASA.

### NASA Mission Concept Academy, L'SPACE MCA — *Science Team*

September 2021 - December 2021

- Collaborated with assigned multidisciplinary team members to deliver project requirements, develop solutions, and meet deadlines.
- Developed a mission concept to Mars to locate and analyze possible ice locations to sustain a future human exploration team.
- Wrote a technical PDR about our proposed mission.
- Conducted independent research to identify possible locations containing ice on Mars using JMARS.
- Presented our PDR to a board of NASA engineers.

### NASA Proposal Writing and Evaluation Experience, L'SPACE NPWE—*Participant*

May 2021 - July 2021

- Brainstormed and developed an innovative solution to NASA's Taxonomy 06: Life Support and Taxonomy 12: Structures needs.
- Performed independent research on mycelium for structural use.
- Worked with a multidisciplinary team to write a technical proposal.
- Learned how to and created various quad charts for down selection.
- Created a New Technology Report with assigned group.
- Learned how to write, analyze, and grade proposals following a structured review process.

## RELEVANT COURSEWORK

Avionics  
Orbital Mechanics  
Aerospace Structures  
Systems Engineering  
Space Vehicle Design

## SOFT SKILLS

Communication  
Time management  
Great initiative  
Adaptable  
Organized  
Self-motivated  
Team-oriented

## CERTIFICATIONS

Siemens NX CAD  
Simulink Onramp Course  
Completion Certificate  
MATLAB Onramp Course  
Completion Certificate

## LANGUAGES

MATLAB  
EasyEDA  
Arduino IDE

Linear  
Microsoft Office  
Google Workspace

Fluent English  
Fluent Spanish