Madison Schooley

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EDUCATION

A.S., Science and Mathematics
Santa Barbara City College, Santa Barbara, CA, GPA: 3.5 **May 2023**
B.S., Aerospace Engineering
San Jose State University, San Jose, CA, GPA: 3.7 **May 2025**
Relevant Coursework: Aerostructures, Propulsion, Spacecraft Design, Rocketry, Flight Mechanics, Aerothermodynamics, CFD

SKILLS

Computer: Basic MATLAB, Google Sheets, CAD, Basic GD&T skill, Excel, Jira, Microsoft Office, Autodesk, SOLIDWORKS
Interpersonal: Leadership, Communication, Teamwork, Problem Solving, Adaptability
Languages: English, Basic ASL

PROJECT EXPERIENCE

Service Learning Project, SJSU **September 2023-December 2023**
- Using knowledge of aerostructures to build a design focused on centroids
- Demonstrate and teach children about the methods behind the design
- Presented important information about engineering to individuals who are not in the field

Spartan Space Systems, SJSU **September 2023-December 2024**
- Leading the structures and mechanics sub-team
- Designing the payload that will break off and use electrodynamic propulsion to land on Jupiter's moon Io
- Managed a group of people and organize efficient meetings
- Communicated and collaborated with other sub-teams to ensure the mission runs optimally and efficiently
- Improved problem solving skills while searching for the best cushion system for the payload due to Io having an extremely thin atmosphere and not using any other propulsion system that would cloud the mission statement

Rocketry, SJSU **September 2024-December 2024**
- Built an L1 rocket capable of flight and earned L1 certification
- Integrated changes made in simulations to optimize the rocket design
- Soldered and 3D printed parts created from scratch
- Applied aerodynamics and physics knowledge towards the construction of a rocket
- Earned a Tripoli L1 rocket certification

Hall-Effect Thruster Project, SJSU **September 2024-May 2025**
- Constructing small Hall-effect thrusters that will be used for future applications
- Modeled the thruster using CAD and improved upon it using simulations
- Learning how to improve the longevity of a space mission as well as the sustainability
- Improved knowledge on electrical propulsion through research using studies, reports, and textbooks
- Tested the constructed thruster at NASA JPL

ACTIVITIES

Lead, Spartan Space Systems - Research, Collaborating, Running meetings
Social Chair, San Jose Dragon Boat - Fundraising, Event Planning, Athletics
Member, RRP-300 - Structures, Testing