

# Joseph Martini

805.543-2222 • jmartini15@calpoly.edu • linkedin.com/in/jmartini15

Project Portfolio: [portfolium.com/jmartini15](https://portfolium.com/jmartini15)

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## Education

California Polytechnic State University, San Luis Obispo (Cal Poly)

Bachelor of Science in **Aerospace Engineering**, June 20xx

Major GPA: 3.1

## Aerospace Engineering Experience

**NASA Ames Research Center – Moffett Field, CA**

**Intern – Fluid Mechanics Laboratory**

June - August 20xx

- Performed flow visualization, using dye and smoke entrainment, on the interference of mounting struts with a blended-wing-body configuration
- Built and reinforced scale B-2 model for smoke visualization
- Modified existing aircraft models and worked with outside sources to fabricate certified water channel and wind tunnel models
- Collaborated with professional engineers to design and defend wind tunnel experimental procedure
- Gained certifications to be water channel and wind tunnel operator

**Polysat Picosatellite Multidisciplinary Project – Cal Poly**

April 20xx - Present

- Collaborating in a multidisciplinary team in the structural design of second picosatellite, CP2
- Created solid models of structural components using Pro/E and I-DEAS
- Researched attitude control satellite components
- Performed finite element analysis of structure and tested thermal configurations
- Volunteer approximately 5-10 hours per week on project (excluding summers)

**Spacecraft Design – Team Project**

September 20xx – June 20xx

- Assisted in the design of a lunar communication satellite constellation focusing on polar coverage
- Served as orbital dynamics and attitude determination and control (ADC) Team Lead
- Demonstrated effective project management and leadership skills in managing tasks, planning meetings, and creating schedules for the team
- Led the trade studies for all levels of the subsystem design
- Presented the design of the orbital dynamics and ADC subsystems to industry

## Technical Skills

**Programming:** Matlab/Simulink, Basic Understanding of C and UNIX

**Applications:** Pro/Engineer, I-DEAS, Microsoft PowerPoint, Word, Excel

## Leadership and Involvement

**College of Engineering Ambassador**

September 20xx – June 20xx

- Worked with an enthusiastic, well-prepared, high-energy student team to represent the College of Engineering in a highly visible public relations role
- Demonstrated excellent communication skills in providing tours to industry reps, alumni, and prospective students and utilized strong organizational skills in implementing special events

**American Institute of Aeronautics and Astronautics**

September 20xx - Present

**Interests:** hiking, backpacking, fishing

## Additional Work Experience

**Shop Assistant, Cal Poly CAED Shop**

September 20xx – June 20xx (excluding summers)

- Enhanced problem solving skills in helping students understand and build feasible projects
- Utilized effective time management strategies to balance coursework and working 15 hours per week