

# Joseph Martini

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## Objective

Design Engineer I position with Lockheed Martin

## Education

California Polytechnic State University, San Luis Obispo  
Bachelor of Science in **Aerospace Engineering**, June 2012

GPA: 3.1

## Aerospace Engineering Experience

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

**Intern – Fluid Mechanics Laboratory**

June - August 2011

- Performed flow visualization, using dye and smoke entrainment, on the interference of mounting struts with a blended-wing-body configuration
- Certified water channel and wind tunnel operator
- 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

**Polysat Picosatellite Multidisciplinary Project – Cal Poly**

April 2010 - 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 2006 – June 2007

- 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
- Managed tasks, planned meetings, and made 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:** Basic Understanding of C and UNIX

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

## Leadership and Involvement

**College of Engineering Ambassador**

September 2010 – June 2011

- Worked with an enthusiastic, well-prepared, high-energy student team to actively represent the College of Engineering in a highly visible public relations role
- Greeted industry representatives, alumni, and prospective students to campus and assisted with special events

American Institute of Aeronautics and Astronautics

Sigma Gamma Tau National Aerospace Engineering Honor Society – Volunteer, canned food drive

Interests: Hiking, backpacking, fishing

## Work Experience

**Shop Assistant, Cal Poly CAED Shop (10-15 hours per week)**

September 2009 - Present

- Work with students to understand their projects and make them feasible
- Supervise safety in the wood/metal shop and maintain and repair shop equipment