

Jillian R. Reddy

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Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (Cambridge, MA)

June 2011

- Candidate for B.S. in Aerospace Engineering
- GPA: 4.1/5.0
- Relevant Coursework: Propulsion, Aerodynamics, Dynamics, Automatic Control, Probabilistic Systems Analysis, Computational Methods, Materials and Structures, Human Factors Engineering, Space Systems Engineering

Experience

MIT AEROSPACE CONTROLS LABORATORY (Cambridge, MA)

June 2010 – August 2010

Research Assistant

- Programmed support vector machine-based algorithms for implementation in computer classification training for a Ford funded project which aims to classify the intentions of drivers at intersections in an attempt to reduce the number of vehicular collisions
- Developed vehicle simulation trajectories from existing databases using Structured Query Language (SQL) for use in testing the algorithm accuracy

MIT SATELLITE TEAM / MIT SPACE SYSTEMS LABORATORY (Cambridge, MA)

June 2009 - December 2009

Power / Propulsion System Engineer

- Developed an electronic solar panel simulator for use in testing satellite components
- Designed and built satellite as part of a team competing in the Air Force Research Lab's (AFRL) University Nanosatellite Program (UNP) to demonstrate new ion thruster technology; launch pending

MIT SAILING PAVILION (Cambridge, MA)

Summer 2008 and 2009

Dock Staff

- Taught adults and children how to sail in private lessons and weekly classes
- Communicated with patrons daily regarding membership options, sailing technique, and event planning while developing public relation skills
- Repaired and maintained sailboats

Academic Project

EXOPLANET SATELLITE (Cambridge, MA)

February 2010 - Present

Power System Engineer

- Designed the power system, including EPS unit, battery configuration, solar panel layout, and circuitry for an MIT Space Systems Lab cube satellite which will monitor stars for the presence of orbiting exoplanets
- Will implement and test the design during the next two academic semesters in order to complete the satellite and obtain a launch

Leadership

MIT VARSITY SAILING TEAM (Cambridge, MA)

May 2010 - Present

Women's Team Captain

- Elected to position for 2010 - 2011 season

MIT SKI TEAM (Cambridge, MA)

March 2009 - Present

President (Former Treasurer)

- Co-founded the MIT Alpine Club Ski Team
- Managed fiscal responsibilities, organized member recruitment, and planned training for 2010 season
- Communicated with various league governing bodies and alumni to prepare for 2011 season

SCIENCE AND TECHNOLOGY LEADERSHIP ASSOCIATION FORUM (STeLA) (Tokyo, Japan)

August 2009

MIT Representative Delegate

- Collaborated with undergraduate, graduate, and PhD students from the US, China, France and Japan to promote global awareness in engineering at STeLA international leadership conference
- Developed leadership skills through lectures, industry field trips, and group discussions/projects focusing on military sciences and peaceful use of technology

Skills

- Proficient in MatLab, Altium Designer (for PCB design), Java, MS Office; Experienced in SQL