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Carolyn Wozniak

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Education

Massachusetts Institute of Technology (MIT) — Cambridge, MA
2015 Candidate for B.S in Mechanical Engineering, GPA: 4.5/5.0 — September 2011
Relevant Coursework: Mechanics and Materials, Dynamics and Control, German III, Thermo-Fluids Engineering, Electronics for Mechanical Systems, Aerodynamics

Rowland Hall — Salt Lake City, UT
Valedictorian — September 2007-June 2011

Experience

Rolls-Royce Deutschland — Dahlewitz, Germany
Control Systems Internship — June-August 2013
-Researched electrical thrust reverser actuation system solutions for a turbojet engine
-Collaborated with controls engineers to build database of tools for use in a thrust reverser design selection workshop with consultant companies
-Interacted with designers across the company to learn about engine component innovations
-Authored a technical report detailing the design challenges, qualification process, and development plan for the electrical thrust reverser actuation system

MIT Teaching Assistant — Cambridge, MA
Physics (8.01): Kinematics — September-December 2012
-Assisting students in problem solving and understanding kinematics concepts

Wireless Advanced Vehicle Electrification (WAVE) — Park City, UT
Summer Internship — June-August 2012
-WAVE strives to power city buses through inductive power transfer
-Researched and developed a model for determining auxiliary power consumption throughout the year, as well as analyzed patents and prior art for the technology

MIT Solar Electric Vehicle Team — Cambridge, MA
Aerodynamics Team Lead — September 2011-Present
-The Solar Car team aspires to design, build, and race solar vehicles in the national and international arenas
-Team completed a carbon fiber composite layup of the lower body of the current solar car model, and raced across the United States in July 2012 during the American Solar Challenge
-Currently designing and characterizing the aerodynamic and composite construction of a monocoque body

Cordin Company — Salt Lake City, UT
High Speed Imaging Internship — February 2011
-Calibrated CCD cameras, specifically evaluating their signal-to-noise ratios for use in a rotating mirror camera

Additional Skills

Computer: Experience in Python programming, MATLAB, SolidWorks, Rhinoceros
Technical: Ham radio licensed
Language: English (fluent), Spanish (conversational), German (conversational)
Hobbies: Complex origami designs, building RC boats, weather balloon video feed