Stephanie M. Schmit

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Education

Massachusetts Institute of Technology, Cambridge, MA — June 2011
Candidate for Bachelor of Science in Mechanical Engineering
GPA: 4.6/5.0 GPA in major: 4.9/5.0
Relevant Coursework: Thermal-Fluids Engineering I and II; Thermodynamics of Biomolecular Systems; Thermodynamic Engineering of Nuclear Reactors; Fields, Forces, and Flows in Biological Systems

Experience

Ethicon Endo-Surgery, a Johnson & Johnson company — Cincinnati, OH
Research and Development Intern — June 2009 – August 2009
- Designed and manufactured the first prototype of a new surgical device that may be launched within two years
- Executed an empirical study, analyzed data, and documented results
- Assisted a product quality team by helping design an experiment, calculating part dimensions, and analyzing parts from the assembly line

Mars Gravity Biosatellite Payload Team, MIT — Cambridge, MA
Team Member and Researcher — September 2007 – June 2008
- Debugged hardware design and wrote software for satellite sensor board that monitors effects of Martian gravity on mice
- Designed light shields and assembled mouse cages for a centrifuge experiment
- Assisted with mouse testing and analyzed video results

MIT Department of Architecture — Cambridge, MA
Assistant to Doctoral Student — July 2008 – August 2008
- Optimized new brick making technologies by constructing a full size wall using innovative interlocking brick shapes for use in developing countries
- Constructed prototype wall that was displayed at August 2008 SIGGRAPH conference

F.I.R.S.T. Robotics Competition Archbishop Mitty High School Team — San Jose, CA
Founder, Team President and Project Manager — August 2003 – June 2007
- Led the 30 member team in the 2006-2007 competition as Project Manager: Oversaw people and resources, including $20,000 budget; managed communication with sponsors; organized member recruitment and training
- Designed mechanical, software and electrical systems; marketed the team to sponsors, mentors and the community; and managed each division of the team
- Designed real-time software for the robot's microprocessor, including a scripting language for autonomous robot control and a software base still in use

Leadership and Activities

Gordon-MIT Engineering Leadership Program (GEL), Participant — September 2009 – present
- Selected to participate in an intensive two-year program emphasizing advanced leadership, engineering effectiveness, ethics, and team dynamics
- Involved in weekly hands-on engineering leadership labs

Thermal Systems Designer, MIT Vehicle Design Summit Project — September 2009 – present
- Designing and building thermal systems for a 4-passenger series-hybrid for Automotive X PRIZE Competition

Skills

- Proficient with common woodworking and metalworking tools, including machine tool training and considerable soldering experience
- Some SolidWorks and Minitab experience
- Programming languages: Proficient in C, C++, Python; Some experience in Java, Matlab, Basic