BARBARA K. SCHLOSS

Cell Phone: (310) 498-6826 | E-mail: bschloss@mit.edu
School Address: 305 Memorial Drive, Room 3087, Cambridge, MA, 02139

EDUCATION

Massachusetts Institute of Technology *June 2015*
Candidate for Bachelor of Science in Aerospace Engineering, GPA 4.7 *Cambridge, MA*

- Relevant Courses: Principles of Automatic Control, Dynamics, Aerodynamics, Unified Engineering (Fluid Dynamics, Thermodynamics, Materials & Structures, Signals & Systems), Probabilistic Systems, Flight Measurement Lab.

EXPERIENCE

Virgin Galactic *Summer 2014*
Propulsion Intern *Mojave, CA*

- Will work with propulsion team for the summer.

Draper Laboratory *Spring 2014*
Aerospace Engineering Intern *Cambridge, MA*

- Working on tool to model ideal landing sites on the moon based on mission constraints.

Jet Propulsion Laboratory *Summer 2013*
Systems Engineering Intern on Mars Science Laboratory (Curiosity) *Los Angeles, CA*

- Wrote slip occurrence report that characterized all slip occurrences (or no slip occurrences) by terrain type, tilt, temperatures, etc. Used to assess slip risk and risk of damaging the rover and robotic arm.
- Programmed command line interface and other capabilities for PlotOhMatic tool in JAVA which queries and plots MSL telemetry data.
- Intern coordinator for JPL Summer CubeSat Symposium.

Aerojet *Summer 2012*
Project Engineering Intern for Orion Jettison Motor *Sacramento, CA*

- Built verification tool for Hardware Acceptance Review (HAR). Tool traced requirements to hardware planning to show compliance. Currently used by upper level engineers at Aerojet.
- Wrote verification report to confirm Jettison Motor was compliant with contractor specifications.
- Managed a variety of tasks and oversaw organization and planning of projects.

MIT Space Systems Laboratory *Fall 2011*
Undergraduate Researcher (Undergraduate Research Opportunity Program) *Cambridge, MA*

- Designed and built reusable battery box for SPHERES satellites on International Space Station.
- Became machine shop proficient on mill, lathe, and basic engineering equipment.

FIRST Robotics *2009-2011*
Captain and Director of Public Relations *Los Angeles, CA*

- Gained mechanical engineering experience including: designing, building, budgeting, creating outreach program, and team management.

LEADERSHIP/ACTIVITIES

NASA January Operational Internship *January 2014*

- Traveled to Kennedy Space Center for intensive 10 day internship to learn how operations influence system design.

Society of Women Engineers *2013*
Corporate Relations Chair *Cambridge, MA*

- Coordinate and organize events for MIT women to network with companies including career fair banquet, aerospace panel, and interview workshops.

Undergraduate Practice Opportunities and Gordon Engineering Leadership Programs *Fall 2012-Present*

- Completed engineering leadership course in UPOP covering a range of leadership topics.
- Currently in GEL program taking courses on engineering leadership.

Alpha Chi Omega Sorority *2011-Present*
Formal Committee, Second PanHellenic Delegate, Admitted Students Weekend Chair, Bid Night Planner *Cambridge, MA*

- Planned and coordinated events over MIT admitted student's weekend, bid night, and semiformal.
- Was member of MIT's governing sorority board, PanHellenic, worked to set rules, and planned events.

Other Leadership Experience

- MIT Orientation Leader, Founder/President of Maseeh Hall Nail Painting Club, Maseeh Hall Representative.

SKILLS

- Programming: Basic Java, Basic Python, Beginner Excel Visual Basic, MATLAB.
- Languages: Semi-Fluent in Hebrew: Spent semester in Israel learning and traveling on Fellowship Program.