

ELLEN MCISAAC

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

June 2012

Candidate for Bachelor of Science in Materials Science and Engineering

Awards/Honors: Edward L. Horton Fellowship Award, Paul E. Gray UROP Researcher Award

WORK EXPERIENCE

Ecole des Mines de Paris

Paris, France

Research Intern, Centre des Matériaux Composites and Mechanics Group

June 2010-Present

- Developed a model of diffusion of water into composite materials using finite element method continuum mechanics.
- Examined failure modes of composites in hot-wet environments.

MIT Career Fair

Cambridge, MA

Director

May 2009-May 2010

- Organized MIT's largest Career Fair, which drew 275 companies and nearly 6,000 students representing all MIT majors and industry fields. Contracted services including exhibition contractors and catering. Received Edward L. Horton Fellowship Award in recognition of related work.

MIT Department of Materials Science and Engineering

Cambridge, MA

Student Researcher, Gradecak Lab (MIT)

February 2009-April 2010

- Researched methods to create wide-bandgap semiconducting nanowires of controlled diameter, length, and spacing.
- Use of AFM and SEM to investigate nanostructures.

LEADERSHIP EXPERIENCE

Society of Women Engineers

Cambridge, MA

Region F Collegiate Senator

July 2010-Present

- Served on Region F Council and the SWE National Senate to represent collegiate members of SWE from Region F.
- Attended Senate meetings and participated in conference calls to discuss collegiate issues and improve Region F communications and relations.

MIT Section Vice President of Corporate Relations

January 2010-Present

- Oversaw the activities of the six event planning Corporate Relations board members. Responsible for the MIT Career Fair, Career Fair Banquet, and several other professional development and networking events for students. Represented the MIT Society of Women Engineers to employers, the MIT administration, and other outside groups.
- Previously served as Engineering Outreach Chair (January-December 2009), currently a National Member

Next House Dormitory

Cambridge, MA

President

January 2010-Present

- Coordinated the activities of the other ten Executive Committee members and the eight Wing Representatives. Oversaw dormitory events, and managed the \$60,000 budget.
- Represented the interests of dormitory residents as a member of the MIT Dormitory Council and the House Dining Advisory Group. Facilitated communication among residents and administrators.
- Previously served as: Treasurer (January-December 2009), Campus Preview Weekend Chair (January-April 2009), and Social Co-Chair (September-December 2008)

Undergraduate Association

Cambridge, MA

Treasurer

June 2010-Present

- Managed Undergraduate Association finances including preparing budgets, making reimbursements, and allocating over \$100,000 per semester to student groups via the UA Finance Board.
- Served as a student advocate to the MIT administration and gathered student feedback through office hours and open forums.

SKILLS

- Research: AFM, SEM, materials modeling, FEM and MD simulations
- Computer: Mathematica, Microsoft Office Suite, Zébulon finite element program
- Language: French (advanced)