

# ELLEN MCISAAC

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## Term Address:

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## Home Address:

52 Northington Drive  
Avon, CT 06001

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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:* The Paul E. Gray UROP Researcher Award

*Relevant Coursework:* Fundamentals of Materials Science and Engineering, Materials Laboratory, Mathematical Methods for Materials Scientists and Engineers

## ENGINEERING EXPERIENCE

### Researcher, Gradecak Lab (MIT)

February 2009-Present

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

### Team President, FIRST Robotics

2005-2009

- Designed and built a robot for competition under time and budget constraints. 2008 robot finished fourth in the worldwide competition.
- Continued work with the team as a mentor, including serving as a member of the Alumni Advisory Board.

## LEADERSHIP EXPERIENCE

### Director, MIT Career Fair

May 2009-Present

- Organized MIT's largest Career Fair, which drew 275 companies and nearly 7,000 students representing all MIT majors and industry fields. Planned all aspects of the day of the Career Fair, including contracts with exhibition contractors, caterers, and many other services.

### Event Outreach Chair, MIT Society of Women Engineers

January 2009-Present

- Planned a variety of engineering outreach events including National Engineering Week, BeaverDash design competition, and Exploring Majors fair targeted from students from elementary school to high school age. Over 300 students participated in events.

### Treasurer, Next House (Dormitory)

September 2008-Present

- Held responsible for a \$60,000 budget; created and oversaw budget and all related transactions.
- Collaborated closely with MIT administration to host the Campus Preview Weekend. Planned, advertised, and executed four continuous days of events, each for up to 500 people.
- Partnered with faculty advisors to run a Women's Advising Seminar, served as an academic and general advisor to six freshmen women as a Residential Associate Advisor.

### Founder, Avon Technology Initiative

2005-2009

- Created a technology initiative to improve the quality of math and science educational opportunities available to students in Avon, CT.
- Active outreach ranging from elementary to high school level, with a variety of presentation types. Worked with public schools, boy scouts, girl scouts, the public library, and fair, with over 3000 students in attendance.
- Founded three elementary-age and two-high school age robotics teams to supplement local technology education.

## SKILLS

- Research: AFM, SEM
- Computer: Mathematica, Microsoft Office Suite
- Language: French (advanced)