

# Crystal McKenzie

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## Education

### Massachusetts Institute of Technology

Cambridge, MA

BS in Chemical Engineering, June 2012

**Activities:** MIT Energy Club, National Society of Black Engineers, Varsity Fencing: Women's Sabre, Varsity Fencing Representative in the SAAA (Students Advisory Athletes Committee)

### Ronald E. McNair Academic High School

Jersey City, NJ

Graduated 3rd in class of 130, June 2008 GPA: 4.0/4.0

**Activities:** Robotics Club - Founder and President, Public Relations Officer of Math club, Treasurer of Model UN, Co-President of Peer Leadership Committee, Visual and Performing Arts: Fine Arts, National Honor Society

## Experience

### iGEM 2010 - Team Member of MIT's iGEM Team

Cambridge, MA

June 2010 - present day

- helped develop the team's project idea, poster and presentation for the competition
- coded and co-created the team website
- presented poster and PowerPoint presentation to a general audience mixed with professionals and academic researchers from various fields of research
- gained knowledge in wet-lab technique
- researched concepts for development and expansion of the project, and delivered informative presentations to team members

### Living Proof - New Materials Research Intern

Cambridge, MA

January 2009 - August 2009

- processed and interpreted experimental data
- created and presented PowerPoint presentations to different parts of the company: marketing, product development, and the CEO
- coordinated a joint research paper written with peers on nano-foam research
- presented to a general audience mixed with professionals from various fields of research

### Rutgers Materials Department - Nano-foam Researcher

New Brunswick, NJ

June 2007 - August 2007

- worked with Lisa Klein, Materials Science researcher, to explore the properties of silica nano-foam
- helped develop an idea for the application of sol-gel-formed silica nano-foam as an affordable insulator inside of buildings
- coordinated a joint research paper written with peers on nano-foam research
- presented to a general audience mixed with professionals from various fields of research

## Leadership

### MIT Society of Women Engineers - Corporate Relations Chair

Cambridge, MA

October 2009 - Present

- reached out to engineering companies to organize events that allow industry professionals to connect with and recruit students
- maintained communication with HR and recruiters from companies requesting a partnership with MIT SWE
- volunteered for other SWE events during Career Week

### MIT MedLinks - Trained Responder

Cambridge, MA

October 2008 - Present

- responded to student health issues/injuries with knowledge in areas ranging from first aid and CPR to contraception devices
- helped organize events, such as the flu shot clinics

### Robotics Club - Founder and President

Jersey City, NJ

September 2007 - June 2008

- set up and structured the club constitution
- organized in-school competition
- co-taught classes with Vice President on circuits and programming

## Skills

**Languages:** Bilingual English and Spanish

**Computer:** MatLab, Java, Excel, PowerPoint, some NQC, some AutoCad

**Analytical :** software-supported light microscope, operation and maintenance of Instron tensile testing machine, NanoDrop spectrophotometer