

# Sara R. Comis

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## Education

### Massachusetts Institute of Technology

Cambridge, MA

Candidate for Bachelor of Engineering in Course 2a (Mechanical Engineering with a concentration in Sustainable Development) and double minor in Applied International Studies and Environmental Science, Burchard Scholar, June 2013. Current GPA: 4.9

**Relevant courses:** Ecology: The Earth System, Civil & Environmental Engineering Design I & II, Globalization, Ecology II: Engineering for Sustainability, Thermal-Fluids Engineering I, Design and Manufacturing I, Engineering Systems Design: High Speed Rail Project

### William Howard Taft Howard High School

Woodland Hills, CA

Graduated: June 2009.

Salutatorian, Platinum Cord, High Honors, Bank of America Math Award (2), California Scholarship Federation Life Member and Seal Bearer, Science Department Award, Harvard Book Award, San Fernando Valley Engineering Scholarship, Advanced Placement National Scholar

## Experience

### Undergraduate Research Opportunity

Cambridge, MA

#### Lab Assistant

January 2011-now

Reviewed and edited compiled sourcebook on Arsenic contamination worldwide

#### Lab Assistant

January –May 2010

Created various electrolyte compositions and measured the mass of the electrolytes using a DSC and TGA-MS in order to create a liquid metal battery.

### International Internship Opportunity (MISTI)

Ramat Ilan, Israel

#### Lab Assistant

June – August 2010

Prepared slurries of Carbon Nanotubes and activated carbon for use in dye sensitized solar cells and car starters.

### Public Service Grant

Tamaula, Mexico

#### Project Coordinator

January 2010

Built cisterns and conducted surveys to enhance and inform about water sanitation in an area of Mexico without running water.

### University of Florida

Gainesville, FL

#### Lab Assistant

Summer 2008

Mastered the use of the tencor profilometer, metal evaporator, and capacitance meter, assembled and used a spin coater to manufacture capacitors, and completed summer research project and presented paper (received awards for best paper and best presentation).

## Leadership

### School leadership

Society of Women Engineers Freshman Rep/Executive Secretary

2009-2010

McCormick Dining and Dish Closet Chair

Fall 2009- now

Resident Associate Adviser

Fall 2009- now

Freshman leadership program- mentee & mentor

Fall 2009 & 2010

California Scholarship Federation- Club Rep/President

2006-2009

## Sports

AYSO/USSF referee

2005- now

Four Year High School Varsity Letter Athlete & College Varsity athlete

2005-now

## Skills

Hebrew (intermediate), Fluent Spanish, Excel, java proficiency & Matlab, CAD proficiency (KeyCreator & SolidWorks)