

CLAIRE B. LEE

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Education

Massachusetts Institute of Technology

- Candidate for Bachelor of Science in Materials Science and Engineering
- Candidate for Minor in Energy Studies
- GPA: 3.9/5.0

Cambridge, MA
June 2014

William Fremd High School

- GPA: 5.1/5.0, graduated 3rd/747
- National Merit Finalist
- ACT: 35 English, 35 Math, 35 Reading, 35 Science, 35 Composite

Palatine, IL
June 2010

Work Experience

Women's Technology Program (WTP) – Mechanical Engineering track

Residential Advisor, Instructor

- Taught introductory class on materials to rising high school seniors
- Acted as a mentor and counselor for the girls, both academically and emotionally
- Responsible for some logistical work: ordering food, documenting with photos and videos, setting up the dorm and décor, keeping record of certain financials

Cambridge, MA
June-July 2011

QuesTek Innovations, LLC

Summer Intern

- Created a comprehensive internal patent database for aluminum alloy compositions
- Processed a specific carburized gear-steel alloy under varying temper cycles, prepared the alloy for testing, performed testing, created depth profiles, performed image analysis

Evanston, IL
June-Aug 2010

Office of Dr. Lukasz Konopka, Clinical Neuroscience Innovator

Volunteer

- Learned intensive data (image) processing using Wolfram Mathematica
- Wrote algorithms for MRI mapping of gray vs. white brain matter, 3D elevation and volume rendering, segmentation, thresholding, filters, and superimposition
- Used image processing techniques to analyze SPECT and MRI images of patients with mild traumatic brain injury and those without

Glenview, IL
Aug 2008-Dec 2009

Sabio Academy

Tutor, Teaching Assistant

- Math and English TA for middle/high school students: recorded lectures, graded homework, posted assignments and grades on the class website, held office hours
- Math and English tutor for elementary school students: created lesson plans, assigned homework, gave periodic reports to parents on their child's performance

Glenview, IL
Schaumburg, IL
June 2006-Aug 2010

Leadership

Pi Beta Phi, Massachusetts Gamma Chapter

President of the Eta new member class

Cambridge, MA
Sept 2011-present

2011 Department of Materials Science & Eng. Freshman Pre-Orientation Program (DMSE FPOP)

Mentor

Cambridge, MA
Aug 2011

2012 Society of Women Engineers (SWE) Region F Conference Committee

Hospitality Chair

Cambridge, MA
Apr 2011-Mar 2012

2011 MIT Sustainability Summit Organizing Team

Marketing Team Member

Cambridge, MA
Nov 2010-Apr 2011

The Wark Group

Founder

- Kiva support group dedicated to raising money to help the poor get themselves out of poverty
- Organize group meetings and brainstorming sessions; coordinate fundraisers (bake sale, poker tournament, eating contest); manage finances, lender webpage, email

Palatine, IL
Sept 2009-present

Skills

Computer

- Competent in Adobe Photoshop, Wolfram Mathematica, Python
- Proficient in Microsoft Office

Laboratory

- Basic experience working in forge, foundry
- Moderate experience working in chemical wet lab
- Experience with Struers equipment (materialographic preparation tools, hardness testers, imaging software, etc.), band saws, abrasive cutoff saws, metallurgical furnaces

Foreign Languages

- Some Korean
- Conversational Spanish