

CAROLYN M. JOSEPH

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EDUCATION

Massachusetts Institute of Technology | Cambridge, Massachusetts Class of 2015

- Candidate for Bachelor of Science in Material Science | GPA: 3.8/4.0
- Relevant Coursework: Fundamentals of Materials, Math Methods for Materials Science, Introduction to Solid State Chemistry

St. Dominic Academy | Auburn, Maine Class of 2011

- Valedictorian, National Merit Finalist

EXPERIENCE

MIT Electrochemical Energy Lab | Undergraduate Researcher January-August 2012

- Researched lithium-air battery technology and collaborated with a PhD candidate to engineer a lithium intercalation electrode to replace metallic lithium for testing cell enhancers
- Created electrodes and made and tested lithium-air cells

St. Dominic Academy | Summer Camp Counselor | Auburn, Maine 2009-2011

- Proposed and executed the first ever “Math and Science” themed week of camp, planning curriculum and experiments for 15 students
- Planned and led week-long tennis camps for up to 25 children as head tennis counselor

VOLUNTEER

Discover Materials Science and Engineering | Mentor 2012

- Introduced 20 freshman to the field of materials science and engineering and to MIT as a mentor for this pre-orientation program

Key Club | St. Dominic Academy | Auburn, Maine 2008-2011

- Revived St. Dominic Academy’s 50-year-old Key Club, increasing student body participation
- Organized and led service projects including an inner-city Christmas dinner, Thanksgiving food basket deliveries, and distribution of care packages for victims of domestic violence

Lots to Gardens | Senior Involvement | Auburn, Maine Spring 2011

- Worked as a spring intern and volunteer for “Lots to Gardens,” a local community gardening program giving low-income families a space to grow food for their own use or for sale
- Planned and planted gardens, organized farmer’s markets, and prepared food for cooking demonstrations

Prince of Peace Parish & St. Dominic Academy | Auburn, Maine 2007-2011

- Served as lector, Eucharistic minister, altar server, children’s catechist, and choir member

ACTIVITIES & INTERESTS

Kenya Charcoal Project | Engineers Without Borders – MIT Chapter 2011-present

- Researching and experimenting with charcoal production by traditional methods as well as by retort

Society of Women Engineers | Marketing and Media Co-Chair 2012-present

- SWE board member in charge of informational video and promotional materials
- Volunteer at outreach events that promote interest in math and science in middle and high school student and participant in career development workshops

Blacksmithing | MIT Forge and Foundry 2011-present

- Practicing traditional and modern blacksmithing and metal casting methods after learning about the composition, structure, and properties of metallic materials in a seminar course

Science Fair Competitor | Illinois Junior Academy of Science 2005-2007

- Showed projects on soils, lightweight composite concrete, and wood/epoxy composites that won local, regional, and state awards

4-H Club Member | Olney, Illinois 1999-2007

- Showed my projects in visual arts, horticulture, soil science, etc. for judging at the local County Fair and the Illinois State Fair

SKILLS

Beginner: MATLAB, Adobe Creative Suite 5