

Catherine Haslam

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OBJECTIVE

- Enthusiastic and responsible student eager to gain experience in the field of Materials Science and Engineering.
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EDUCATION

University of Michigan- Ann Arbor, MI

August 2014 - May 2018

- Major: Materials Science and Engineering
- GPA: 3.915/4.000
- Dean's Honor List- Fall Term 2014 and Spring Term 2015

H.H. Dow High School- Midland, MI

August 2010 - May 2014

- National Merit Scholar
 - GPA: 3.99/4.00
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EXPERIENCE

University of Michigan Energy Institute Summer Fellowship

June 2015 – August 2015

Project: All Solid-State Lithium Battery Cathode/Electrolyte Material Compatibility

Laine Group

- Produced thin film cathode materials for solid-state batteries and studied their sintering characteristics, as well as interactions at cathode/electrolyte interfaces;
- Presented and participated in Materials Minute discussions on ceramics-related communications from high-impact journals, as well as presentations and discussions with Energy Institute faculty;
- Awarded an Outstanding Poster Award for presenting a research poster detailing this summer work.

University of Michigan Dept. of Materials Science and Engineering

September 2014 – Present

UROP Research Assistant, Laine Group

- Processed nanopowders produced by liquid feed-flame spray pyrolysis from metalloorganic precursors;
 - Developed ZrO_2 and Li_2ZrO_3 thin films for CO_2 sequestration and presented a research poster about these films.
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ACTIVITIES

Society of Women Engineers

September 2014 – Present

Member Outreach Co-Chair 2015-2016

- Implemented a mentorship program in order to integrate new and active members, organized a welcome picnic for 150+ students and freshman outreach events.

Science Learning Center Study Group Facilitator

September 2015 – December 2015

Organic Chemistry

- Designed learning activities and worksheets to help other students enhance their understanding of chemistry;
- Effectively managed a group of diverse students to work cohesively as a team to teach each other and learn.

Michigan Research Community

September 2014 – May 2015

- Member of a student community focused on research projects and participated in bi-weekly research seminars.
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SKILLS

- Experience with Microsoft Office, Adobe Illustrator and programming in C++ and MatLab;
- Material analysis through X-ray diffraction and scanning electron microscopy;
- Knowledgeable of backcountry survival skills after a nine-day backpacking expedition in the Appalachian Mountains of North Carolina in July 2014.