

Olivia Sherman

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EDUCATION

University of Michigan, Ann Arbor, MI

Bachelors of Science in Engineering, Environmental Engineering, GPA 3.93

May 2025

- Coursework: Environmental Engineering Principles, Fluid Mechanics, Thermodynamics, Statistical Methods
- Certificate: Program in Sustainable Engineering (PISE)

Technical University of Berlin, Berlin, Germany

May 2023 – June 2023

- Coursework includes Renewable Energy and German Language A2

Henry Ford Collegiate Academy, Dearborn, MI

High School Dual Enrollment Program; GPA 4.39

August 2019 - June 2022

- Coursework: Business and Technical Writing and Research

PROJECT EXPERIENCE

Renewable Energy System Simulation

May 2023- June 2023

- Modeled systems of wind turbines, photovoltaic cells, and storage units with Python, using recorded weather and location data from Bakersfield, CA, to analyze the capacity for power generation
- Calculated the levelized costs of electricity over the course of 20 years using the annuity method with Python in order to decide the best economical system configuration for Bakersfield
- Wrote and presented a feasibility report and recommendation for the best renewable energy system set-up

Intro Engineering: Design in the Real World

Section 310: Recycling and Repurposing of Plastics

September 2022 – December 2022

- Designed a hypothetical product made from recycled plastic pellets that the market would favor, is economically reasonable to produce and come as close as possible to a closed loop life cycle
- Researched types of plastic and their attributes, possible replicate patented designs, and the cost of materials and production with UM's online library catalogue of scientific journal publications
- Utilized CAD drawings, morphological charts, and objective trees to visualize the product and process to the stakeholders

WORK EXPERIENCE

Michigan Housing, Ann Arbor, MI

Resident Advisor (RA)

August 2023 - Present

- Supports the needs of residents while enforcing university housing policies to ensure a safe, welcoming, and inclusive environment
- Collaborates with other residential staff to address concerns and foster open communication between residents, resident advisors, and administrative staff
- Organizes intentional interactions, programming, and activities to create a community among over 30 residents and help them acclimate to campus life

The Henry Ford, Dearborn, MI

Guest Services Associate, Seasonal

June 2022 – Present

- Assisting the guest's experience witnessing the history of American innovation
- Completes membership transactions while providing informative customer service to promote continued patronage

Undergraduate Externship, Ann Arbor, MI

Student Extern

March 2023

- Learnt daily operations of engineering consulting firms, including both office and field work, partnered with the companies Geosyntec and Black & Veach.
- Met with professionals in the wastewater, geotechnical, and construction industries.

EXTRACURRICULARS

BLUElab Metro – Waste Reduction Subteam

September 2023 - Present

Tau Beta Pi – Michigan Gamma Chapter

September 2023 - Present