

Hailey Luke

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Education

University of Michigan

BSE in Environmental Engineering with Minor in Sustainability

Ann Arbor, MI

Dec 2025

- GPA: 3.93/4.0
- Course Highlights: Sustainable Engineering Principles, Environmental Engineering Principles, Statics and Dynamics, Thermodynamics, Introduction to Computer Programming, Multivariable Calculus, Differential Equations, Physics, Organic Chemistry, Economics, Statistics, Business and Sustainability
- Awards/Honors: Three terms University Honors/Dean's List (GPA over 3.5), William J. Branstrom Freshman Prize (awarded to top 5% of freshman College of Engineering class), Tau Beta Pi Member, Chi Epsilon Member

Shrewsbury High School

Shrewsbury, MA

Jun 2022

- GPA: 5.0/5.0
- Awards/Honors: SHS Senior Scholars (top 10 students in 2022 graduating class), Highest Honor Roll every quarter, National Honor Society, National Math Honor Society, National English Honor Society, AP Scholar with distinction
- Earned 19 college credits for AP classes including Calculus, Environmental Science, Statistics, and Psychology

Work Experience

University of Michigan Office of Campus Sustainability

Energy Management Program Assistant

Ann Arbor, MI

Jan 2024-present

- Utilize Excel and Energy Star Portfolio Manager to analyze energy consumption data
- Conduct on-field lighting audits for buildings to support LED conversion project proposals
- Create and draft 2D lighting floor plans using AutoCAD for the implementation of LED conversion projects
- Coordinate with the energy engineers to conduct HVAC system tune-ups for on campus buildings

TechLaw Consultants

Environmental Technician Intern

Lowell, MA

May-Aug 2023

- Obtained grab samples at Boston area beaches to be used for bacteria testing for public health purposes
- Utilized Isco composite samplers to collect wastewater for testing to ensure permit compliance
- Collected samples from a PSU Series Air Sampler as a part of the BioWatch Program to detect early warnings of a bioterrorist attack
- Established Chain of Custody records for the control and transfer of samples

Camp Sewataro

Adventure Challenge Facilitator

Sudbury, MA

Jun-Aug 2022

- Designed engaging activities for campers
- Collaborated with other adventure challenge facilitators
- Supervised a safe and cooperative environment on adventure equipment

Project Experience

Prototype Wind Turbine Design Project

Team Member

Ann Arbor, MI

Jan-Apr 2023

- Designed and constructed a small-scale, Savonius wind turbine
- Utilized concepts learned in lecture to estimate the power generation and efficiency of the turbine
- Converted the mechanical energy into electrical energy using a stepper motor
- Summarized work in a technical report and final presentation

Leadership Experience

Chi Epsilon – Civil and Environmental Engineering Honor Society

Ann Arbor, MI

Secretary

Jan 2024-Present

- Create and maintain accurate records of club meetings, including agendas, minutes, and attendance
- Organize all of the club files, records, and details

Shrewsbury High School Girls Varsity Tennis Team

Shrewsbury, MA

Captain

Jul 2021-Jun 2022

- Exhibited teamwork and a strong work ethic by promoting camaraderie
- Collaborated with coaches and co-captain for drills, warm-up exercises, and team building activities
- Received Alice Francis Wolf Award for dedication and excellence in girls' tennis and Midland-Wachusett Academic Achievement Award

Additional

- **Technical Skills:** MATLAB, C++, Python, Windows, MacOS, Microsoft Office
- **Soft Skills:** Organization, adaptability, time management, communication, reliability, flexibility
- **Activities:** Tau Beta Pi, Chi Epsilon, Michigan Community Scholars Program Living Learning Community, Society of Women Engineers, American Society of Civil Engineers, American Foundation for Suicide Prevention