Sarah Donley

411 N State St | Ann Arbor, MI 48104
sdonley@umich.edu | (810) 931-6097

Education

University of Michigan, *College of Engineering* **Ann Arbor, MI**
B.S.E. in Electrical Engineering, Minor in Mathematics May 2025

- GPA: 3.644/4.0
- **Relevant Coursework:** Introduction to Circuits, Programming and Introductory Data Structures, Introduction to Signals and Systems, Electromagnetics I, Electrical Engineering Systems Design I and II, Analog Circuits, Digital Signal Processing and Analysis, Introduction to Semiconductor Devices*, Electric Machinery and Drives*
- **Software Knowledge:** MATLAB, C++, C, C-more, Git, Python, RSLogix 500, Productivity Suite
- **Extracurriculars:** Eta Kappa Nu - *President, Activities, Historian,* Society of Women Engineers - *Member,* University Skateboard Collective - *Member*

Work Experience

Corrchoice **Mason, MI**
Electrical Engineering Intern July 2023 - Aug. 2023

- Incorporated C-more and Productivity Suite software to automate an exhaust room based on temperature
- Installed and wired a human-interface screen and programmable logic computer into a cabinet
- Developed plant shut-down operations procedure documentation for maintenance staff

Kennedy Technologies Corporation **Dimondale, MI**
Electrical Engineering Intern May 2022 - Aug. 2022

- Utilized C-more programming software to design 70+ human-machine interface screens
- Maintained production in plants belonging to companies worth up to $4.7 billion
- Tested simulation conveyor belt software on 100+ belts using RSLogix 500 to aid in production software refinement
- Observed and reported discrepancies between newly developed unit tracking software and production

Project Experience

Renewable Energy Case Study **Berlin, DE**
Team Member May 2023 - June 2023

- Collaborated with two team members to study the effects of renewable energy sources on Traverse City, MI
- Studied energy use and efficiency of Enercon E-138 wind turbines and photovoltaic modules
- Programmed algorithm in Python to optimize coverage ratio and levelized cost of energy data

Alternative Spring Break - Chicago **Chicago, IL**
Team Member Jan. 2023 - Mar. 2023

- Partnered with 8 team members to introduce engineering concepts to 3 separate high schools
- Taught and performed robotic design and division of labor principles in an understandable way

Robotic Design **Ann Arbor, MI**
Engineer in Training Jan. 2023 - April 2023

- Designed and built a robot to be able to search for specified items and document location
- Learned to communicate with a Beagle-Bone Blue computer using C

Biodegradable Plastics Exploration **Ann Arbor, MI**
Engineer in Training Sept. 2021 - Dec. 2021

- Partnered with four team members to study the biodegradation of a SISU mouthguard in different materials
- Coauthored a 20-page formal report on our findings
- Performed a dignified presentation of a group-invented, recyclable, PPE product

Additional

- **Languages:** English - expert, German - novice