

Kayla Mazure

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Engineering Design Portfolio Link: <https://sites.google.com/view/kayla-mazure/>

EDUCATION

University of Michigan, Ann Arbor, MI

August 2022 – May 2025

B.S.E Mechanical Engineering

- GPA: 4.0 | Undergraduate - Junior status | Dean's Honor List
- Courses: Dynamics & Vibrations, Design & Manufacturing I, Electronic Circuits, Mechanical Behavior of Materials, Intro to Solid Mechanics, Thermodynamics, Robotics Mechanisms
- Activities: Society of Women in Engineering, Google Developer Student Club, American Society of Mechanical Engineers, MRover, Tau Beta Pi Honor Society
- William J. Branstrom Freshman Prize 2023
 - Top 5% GPA of College of Engineering students in their first fall term at the University of Michigan

L'Anse Creuse High School North, Macomb, Michigan

September 2018 – June 2022

High School Diploma - Valedictorian

- GPA: 4.312 | SAT: 1460 - 99th percentile (Math: 780 | English: 680)
- Qualified for and completed the Math, Science, Technology Program, containing accelerated STEM courses
- Activities: Student Council, Science National Honor Society, Mu Alpha Theta, National Honor Society

SKILLS & CERTIFICATIONS

- Proficient in CAN Communication topics, Vector CANalyzer software, and Vector Vehicle Trace Analysis
- SolidWorks and AutoCAD software proficiency
 - Certified SolidWorks Associate in Mechanical Design (CSWA)
 - Certified SolidWorks Associate in Additive Manufacturing (CSWA-AM)
 - MySolidWorks training in Simulations and Finite Element Analysis
- Trained on using Mill and Lathe for a Design and Manufacturing Course Robotics Project
- Seven Certifications from Precision Exams in Engineering Principles I and II, Engineering Technology, CAD Mechanical Design I and II, Manufacturing Technology, and Architectural Design
- Experience with Python, JavaScript, Matlab, and C++ Programming
- Proficient in Microsoft Office (Teams, Excel, Word, PowerPoint) and Google Suite (Docs, Slides, Sheets, Forms)

WORK EXPERIENCE

Bosch - Vehicle Systems Engineering Intern

Summer 2023

- Developed four Python scripts to process vehicle traces and determine if messages met performance criteria
- Investigated Python output to validate Central Gateway communication requirements
- Executed 25 CAN Communication signal/message analyses on full vehicle system traces
- Collected test data from simulation-benches and in-vehicle tests to validate messages followed DBC definitions
- Led a customer acquisition training scenario for seven team members to strengthen the communication between sales and engineering teams along with practicing customer-facing scenarios

Pscopyce - UX Web Designer for startup business

Summer 2022

- Designed the user interface for a desktop application to help users plan and achieve goals
- Developed the backend of the application to create accounts and store user information

LEADERSHIP EXPERIENCE

Math Science Technology (MST) Leadership Council

2018 – 2022

- Presidential Director 2021-2022, Co-President 2020-2021, Class Officer 2018-2019
- Implemented fifteen school wide events and community donation efforts

Varsity Bowling and Golf - Team Captains

2018 – 2022

VOLUNTEER EXPERIENCE

- Benefited the community through donations to local charities and work through L'Anse Creuse United Charity Week to donate over \$20,000 back into the local community in Spring 2021
- Welcomed incoming freshmen to the high school through the Link Crew Leader program in Fall 2020 and 2021
- Volunteered at a Polish Festival for 34 hours during Summer of 2018