

Trevor Perl

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Education

University of Michigan

Bachelor of Science in Engineering in Mechanical Engineering, Minor in Computer Science

Ann Arbor, MI

Aug. 2022 - May 2026

- **GPA: 3.96/4.0**
- **Course Highlights:** Design and Manufacturing I, Multivariable Calculus, Solid Mechanics, Programming and Introductory Data Structures, General Physics II
- **Awards/Honors:** Dean's List, Fall 2022 & Winter 2023; George M. Landes Prize for Technical Communication, Fall 2022; William J. Branstrom Freshmen Prize, Winter 2023

CEA CAPA Paris Center

- **Courses:** Thermodynamics I, Sports and Culture in Contemporary France

Paris, France

May 2023 - June 2023

Skills

- **Technical Skills:** C++, Matlab, CATIA, Solidworks, Siemens NX, Star CCM+
- **Manufacturing Experience:** Bridgeport Mill, Manual Lathe, Laser Cutting

Relevant Experience

Michigan Baja Racing

Rear Frame Lead

Ann Arbor, MI

Aug. 2023 - present

- Designed a rule-compliant rear section of a frame for an offroad vehicle using Siemens NX to optimize for weight, strength, and rear subsystem packaging
- Researched jiggling methods for frame construction to reduce cost and labor hours

General Member

Sept 2022 - Aug. 2023

- Analyzed a belt and pulley system as an alternate power transfer option for 4WD
- Formulated a 10-page proposal and corresponding 10-minute presentation for a hypothetical sales competition detailing manufacturing, marketing, and sales strategies
- Restored and repaired 4 past vehicles to compete at Winter Baja against 30+ teams

American Institute of Aeronautics & Astronautics

Outreach Committee Member & Events Lead

Ann Arbor, MI

Sept. 2022 - present

- Aided in the development and execution of an Aerospace Day for 100+ K-12 students which included a speaker, project team presentations, and interactive STEM activities
- Created presentations with advice and info for 9-12 students interested in aerospace

Work Experience

University of Michigan Department of Physics

Physics: Electricity and Magnetism Learning Assistant

Ann Arbor, MI

Aug. 2023- present

- Instructed 60+ students through weekly practice problems and worksheets
- Reviewed and revised homework problems and graded completed work

Island Lake Recreation Area

Seasonal Worker

Brighton, MI

June 2022 - Aug. 2022

- Maintained and upgraded valuable features through maintenance and projects
- Communicated with colleagues and patrons to manage crowds and enforce rules
- Facilitated water examinations for hazardous bacteria and other foreign substances