

STUDENT NAME

email@umich.edu • 734-647-7160 • Ann Arbor, MI

EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Industrial and Operations Engineering

April 2025

GPA: 3.08/4.00

Coursework: Introduction to Optimization Methods, Introduction to Markov Processes, Linear Statistical Models, Lean Manufacturing and Services, Global Cultural Systems Engineering

Technische Universität Berlin

Berlin, Germany

Study Abroad

May 2022 - August 2022

- Completed coursework in Industrial Engineering and German language
- Participated in cultural and industrial excursions to understand intricacies of German culture and business
- Volunteered in local elementary school to teach English as a second language to students

WORK EXPERIENCE

Mataco, Inc.

Broadview Heights, OH

Supply Chain Management Intern

May 2024 - August 2024

- Coordinated transition to new brass wire supplier resulting in \$5,500 savings
- Standardized shipment process from new supplier to Mataco factories using lean manufacturing techniques
- Developed database tools to track inventory transported from new supplier to Mataco warehouses
- Presented 12 weeks of data analysis and recommendations at Mataco annual company meeting

PROJECT EXPERIENCE

University of Michigan

Ann Arbor, MI

Analysis of Solar Power

January 2025 - Present

- Examine use of solar power in residential and commercial areas to determine economic feasibility of environmentally friendly energy sources
- Compare costs of diverse solar cells, taking into consideration tax refunds and divergent energy outputs
- Compile results in formal report and presented findings to company CEO and leadership team for further study

Entrepreneurial Studies: Start-up Simulations

September 2022 - December 2022

- Researched design options, material costs, competitors and market demand for wearable technology to determine optimal pricing and launch strategy
- Created a 5-year financial projection demonstrating product viability and pitched business plan to potential investors

LEADERSHIP EXPERIENCE

University of Michigan Alternative Spring Break

Ann Arbor, MI

Site Leader

September 2022 - March 2023

- Planned and facilitated an interactive 5-day service-learning trip to Gary, IN to volunteer in a domestic violence shelter
- Appropriated budget of \$10,000 for food, travel, and accommodations for 12 student volunteers
- Managed volunteer schedule to ensure sufficient staffing of all events and services at the shelter
- Acted as a liaison between shelter staff and students to facilitate successful communication between all parties

SKILLS

Computer: Excel, Access, VBA, SQL, Minitab, AMPL, Python, C++, MATLAB

Certifications: Lean Manufacturing Green Belt, Six Sigma Green Belt

Coursera Training: Data Analysis and Visualization Foundations Specialization, Foundations of Project Management

Languages: Proficient in German

ACTIVITIES

Alpha Pi Mu (Industrial Engineering Honors Society), *Member*

September 2023 - Present

Michigan Engineering Consulting Club, *Member*

January 2024 - May 2024

STUDENT NAME

(xxx) xxx-xxxx • email@umich.edu • www.linkedin/in/studentname

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|------------------------|--|
| SUMMARY | Multi-Disciplined Engineer equipped with innovative design solutions for multi-faceted projects including major OEMs. Experienced in machining processes, computer-aided design and database design platforms. Poised to provide technical direction and leadership to diverse teams in support of successful project rollouts. |
| EDUCATION | <p>University of Michigan, Ann Arbor, MI Master of Science in Engineering in Mechanical Engineering April 2025 GPA 3.64/4.00 Coursework: Auto Body Structures, Quality Engineering Principles, Intro to Systems Engineering, Hybrid & Electric Vehicles</p> <p>University of California, Los Angeles, CA Bachelor of Science in Materials Engineering April 2023 GPA 3.81/4.00 Coursework: Computer-Aided Design, Manufacturing Processes, Metallic Alloys, Polymers, Composite Materials, Ceramics and Glass, Mechanical Behaviors of Materials, Statics and Strength Materials</p> |
| EXPERIENCE | <p>Eaton Corporation, Tualatin, OR Engineering & Technology Intern (eMobility) June 2024-August 2024</p> <ul style="list-style-type: none">• Modified power distribution unit (PDU) design for major OEM's next generation electric vehicle platform, increased busbar area by 35% and met packaging, creepage and clearance requirements• Researched and created connector selection guide and creepage and clearance calculation template for future applications <p>UCLA Institute for Technology Advancement, Los Angeles, CA Baseball Bat Research Assistant December 2021-June 2023</p> <ul style="list-style-type: none">• Redesigned, machined and assembled a high-pressure ball cannon to meet new industry testing standard for measuring high speed bat performance (ASTM F2219)• Prototyped and tested polyurethane foam inserts of various densities for AXE Bat's Youth League bats and improved weight-efficiency of stiffening inserts by 25% |
| PROJECTS | <p>Multidisciplinary Design Program, BASF/Xenith Helmet Project Engineering Sub team Member January 2024-Present</p> <ul style="list-style-type: none">• Design and built drop test fixtures to perform initial helmet PU foam testing and screening• Analyze stress-strain curves from data collected using UTM and high strain-rate drop test to characterize foam behavior <p>AIAA Rocket Project Structure Team Member/Project Team Leader September 2021-June 2022</p> <ul style="list-style-type: none">• Collaborated with five team members to manufacture rocket body tubes using carbon fiber prepregs• Led the design and successful construction of vertical rocket stand |
| COMPUTER SKILLS | Platforms: Windows Vista/7, Mac OS, UNIX: Solaris, HP-UX Languages: C/C++, MATLAB, Java, LabView Applications: SolidWorks, Simulink, Minitab |
| ACTIVITIES | Mechanical Engineering Graduate Council September 2023-Present University of Michigan Men's Rowing Team September 2023-September 2024 |
| LANGUAGES | Fluent in Mandarin |

FIRST YEAR STUDENT NAME

(xxx) xxx-xxx, email@umich.edu
2121 Bonisteel Blvd.
Ann Arbor, MI 48109

OBJECTIVE

Inquisitive undergraduate engineering student seeking to apply automotive interests in a summer 2021 internship focused on autonomous vehicle development.

EDUCATION

University of Michigan, Ann Arbor, MI
Bachelor of Science in Engineering

April 2028

Mercy High School, Farmington Hills, MI
Diploma; GPA: 3.9/4.0

June 2024

LEADERSHIP

Mercy High School FIRST Robotics Team #1461, Farmington Hills, MI
Mechanical Team Lead

August 2021 - May 2024

- Designed chassis of robot using CAD software then collaborated with programming team lead to ensure proper design requirements were met
- Machined parts for dynamic systems using a lathe, drill press, bandsaw by accounting for the forces and accelerations of a rigid body robot

EXPERIENCE

Mercy High School, Farmington Hills, MI
Science Tutor

June 2022 - August 2024

- Led tutoring sessions for 15 students by communicating key concepts in smaller groups to facilitate a better understanding of biology, chemistry, and physics
- Adapted lesson plans for groups of five students based on their individual learning styles to foster deeper engagement with course material and better retention

Yofresh Frozen Yogurt Cafe, Brighton, MI
Yogurt Connoisseur

June 2021 – June 2022

- Maintained welcoming store atmosphere by greeting customers and completing their orders at the cash register in a timely manner
- Recorded detailed list of closing shift responsibilities to standardize practice across all employees

ACTIVITIES

Women in Science and Engineering Residential Program (WISE RP), Ann Arbor, MI
Community Member

September 2024 - Present

- Foster community within residence hall by participating in team building activities with 100+ community members
- Analyze scientific journal articles and presented key findings to a class of 15 WISE RP members

University of Michigan, Intramural Soccer, Ann Arbor, MI
Team Captain

September 2024- Present

- Recruiter of nine peers to form a coed soccer team by utilizing social media and flyers to market the opportunity to the campus community
- Communicate with fellow captains in the league monthly to coordinate schedules and establish times for games

SKILLS

HTML, Microsoft Office, Windows, Mac O