

William Waite

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EDUCATION

University of Michigan

Bachelor of Science in Engineering, Mechanical Engineering

Distinguished Leadership Award Recipient (2026)

GPA: 3.71 / 4.00

Ann Arbor, MI

May 2026

WORK EXPERIENCE

Stoneridge

Thermal Systems Engineering Intern

Novi, MI

May 2025 - August 2025

- Synthesized valuable information to 10+ BOMs, including cost, mass, and images down to tier N
- Invented a physics based simulation to model a part Stoneridge developed, achieving an average R^2 of .96 with experimental data
- Conducted root cause analysis through part teardown, identifying 3 major problems and recommending changes
- Coordinated and planned 4 phase NVH testing to guarantee part performance and durability
- Presented project outcomes to 50+ employees, earning "Most Impactful Project" among 10+ intern projects

University of Michigan

Research Assistant

Ann Arbor, MI

May 2024 - August 2024

- Devised and executed a series of experiments to invent a new drug delivery method
- Optimized drug delivery method resulting in a 100% success rate in experimental trials
- Tested and honed microfluidic droplet printer to ensure accuracy and precision across experiments
- Developed and optimized code for efficient image processing and analysis, improving data processing time by 50%

PROJECT EXPERIENCE

Cylindrical Spray Pressure Mapping System

Mechanical Engineer

Ann Arbor, MI

August 2025- December 2025

- Built a waterproof, self-traversing system to generate cylindrical water spray pressure maps for an industry sponsor
- Integrated 80+ components, including custom-designed parts, load cells, and motors to create a robust solution
- Executed the full engineering design cycle, from problem definition and requirements development through prototyping and verification of 30+ specifications, culminating in sponsor handoff

4 Bar Linkage Design and Control

Mechanical Engineer

Ann Arbor, MI

August 2024 - December 2024

- Designed and fabricated a device to autonomously sense and deactivate active targets using a high-powered LED, proximity sensors, and a DC electric motor
- Conducted motion generation, energy conversion, and motor control system analysis using SolidWorks, MATLAB, and MSC Adams
- Wrote a 500+ line program for an Arduino microcontroller to implement feed-forward and feed-back PID control

SPARK Electric Racing

Mechanical Engineer

Ann Arbor, MI

August 2023- December 2024

- Researched and designed braking system for a new 560 lb. motorcycle, ensuring safety standards, performance metrics, and budget compliance
- Modeled brake rotors, calipers, and other brake subsystem components in CATIA to validate geometric compatibility across rotor, caliper, and frame mounting interfaces

LEADERSHIP EXPERIENCE

University of Michigan

President of Pi Tau Sigma

Ann Arbor, MI

December 2024 - August 2025

- Oversaw a team of officers, delegating responsibilities and ensuring events and activities were well planned
- Managed \$3,000 budget, allocating resources to support organizational goals and initiatives
- Organized volunteering, leadership, and professional development opportunities for members and public
- Initiated and secured a collaboration with Capital One, aimed at providing professional development opportunities and industry engagement for society members

SKILLS

Programming languages: MATLAB, C++, and Python

Software: SolidWorks, CATIA, PreForm, MSC Adams, HyperWorks, LabVIEW