

## **SAWYER SMITH**

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## **EDUCATION**

**University of Michigan – College of Engineering**, Ann Arbor, MI

**B.S.E. Robotics Engineering** — Expected Winter 2027 GPA: 3.34

Relevant Coursework: Mechatronics, Data Structures, Robot Operating Systems, HRI, OOP

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## **EXPERIENCE**

**Sanhua Automotive USA** – *Automotive Engineering Intern* May–Aug 2024

- Designed and implemented LabVIEW control software for a water-pump testbench with LIN-based feedback and control.
- Assisted in customer warranty analysis and functional testing for thermal management products.
- Researched competitor patents and products to benchmark design and performance trends in the EV cooling market.
- Created 3D-printed display models for trade shows and internal testing.
- Collaborated across engineering and sales teams to ensure accurate technical communication with clients.

**Brose North America** – *Test Release Engineer Intern* May–Aug 2023

- Conducted BLDC motor testing using DYNO systems; standardized and updated legacy test procedures.
- Coordinated with electronics, design, and acoustics teams to synchronize testing outputs and data integrity.
- Produced an internal training video and documentation on DYNO testing to streamline onboarding.
- Performed function and controller validation checks using Goepel diagnostic equipment.

**Independent Technical Projects** – *Freelance Developer / Engineer* 2023–Present

- Developed Python-based data-scraping tools automating collection and cleanup of 30K+ email records from large datasets.
- Designed and implemented a custom Google Looker plugin and studio view to visualize operational KPIs for a business client.
- Building a personal website using HTML, CSS, and Git to consolidate technical projects and current work.

**Michigan Fabrication** – *Vice President* Feb 2024–Aug 2025

- Led logistics, events, and communications for a 50+ member student maker organization.
- Supported member projects with fabrication guidance and ensured safe lab operation.
- Helped grow member engagement through workshops and inter-club collaborations.

## **SKILLS**

Python, C++, MATLAB, LabVIEW, HTML/CSS, Git, ROS, Fusion 360, 3D Printing, AutoCAD, Technical Drawing, Microsoft 365, Data Visualization

