Evan M. Eidt

evaneidt@umich.edu ● (734) 516-7072 ● www.linkedin.com/in/evan-eidt

EDUCATION

University of Michigan **Ann Arbor, MI**

Bachelor of Science in Computer Engineering Expected May 2024

GPA: 3.93 / 4.00

Relevant Coursework **:**

Embedded Systems Design	Algorithms & Data Structures	Electronic Circuits
Logic Design	Semiconductor Devices	Quantum Electromagnetics

WORK EXPERIENCE

NASA Jet Propulsion Laboratory **Pasadena, CA**

Avionics Integration and Test Intern - Mars Sample Return Sample Retrieval Lander Summer 2023

- Created a Python web application to track equipment calibration renewals and send update notifications for approaching due dates.
- Developed an interpreted language to automate the execution of testing routines that implemented automated telemetry test points and abort procedures.
- Wrote two electrical integration procedures to integrate compute element hardware and checkout simulation equipment hardware.

Bauer Controls **Plymouth, MI**

Electrical and Computer Engineering Intern Summer 2021 & 2022

- Developed and debugged flashing procedures for twelve electric vehicle ECUs over CAN.
- Developed managed switch communication for an autonomous vehicle rooftop module.
- Constructed and debugged industrial data acquisition and controls test stands for EV battery lines.
- Diagnosed issues with sensors and test hardware for each of the Big 3 auto manufacturers.

PROJECTS

Michigan Aeronautical Science Association (MASA)

Avionics Subteam Lead Fall 2022 - Present

- Managing timelines, requirements, and documentation for over a dozen active projects
- Developing software for an NI DAQ in C++, including data acquisition drivers and a custom asynchronous TCP client/server application.

Avionics Project Manager Fall 2021 - Fall 2022

- Managed the design of a custom data acquisition system for ground systems testing, including high-level functional design, PCB design and layout reviews, and timelines and requirements.
- Designed PCBs for power distribution, signal conditioning, and solenoid valve driving applications.
- Redesigned and reconstructed the team's DAQ cabinet to bring it in-line with industry standards.

Personal Project

Designing an embedded system for automated cornhole scoring Summer 2022 - Present

- Creating an MSP430-based PCB using RF, UART, I^2C, and accelerometers.
- Building an STM32-based sensing system using load cells, proximity sensors, LCD displays, and SPI.
- Writing custom C firmware to detect freefall events, encode data packets, and determine score.

SKILLS

Programming Languages: C, C++, Python, Java, Julia, Verilog, MATLAB

Software: Altium, KiCad, Git, Visual Studio, Wireshark, LTSpice, Solidworks, Quartus Prime, MS Office

Technical Skills: PCB design, circuit design, THT/SMD soldering, technical writing, debugging

Soft Skills: Written and verbal communication, problem-solving, leadership, proactive, goal-oriented