

Evan M. Eidt

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EDUCATION

University of Michigan

Bachelor of Science in Computer Engineering

GPA: 3.901 / 4.00

Relevant Coursework :

Embedded Systems Design	Operating Systems	Quantum Optoelectronics
Mobile & Pervasive Computing	Semiconductor Devices	Quantum Electromagnetics

Ann Arbor, MI

May 2024

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.
 - Wrote ISO standard testing procedures for custom circuit boards.
 - Diagnosed issues with test stands and DAQ hardware for each of the Big 3 auto manufacturers.
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PROJECTS

Michigan Aeronautical Science Association (MASA)

Avionics Subteam Lead

Fall 2022 - Spring 2024

- Managing timelines, requirements, and documentation of all parts of the avionics subteam.
- Providing support and feedback for test stand, ground software, and rocket designs.
- Developing C++ software for a PXI DAQ, including system drivers and a custom TCP implementation.

Avionics Project Manager

Fall 2021 - Fall 2022

- Managed the design of a custom data acquisition system for ground systems testing.
- 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 embedded system using VHF radio, UART, I²C, and accelerometers.
 - Building an STM32-based sensing system using load cells, proximity sensors, LCD displays, and SPI.
 - Writing C firmware to detect freefall events, send packets, and determine score using system state.
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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