

WORK EXPERIENCE:

General Motors	June 2021 – Sept 2024
Embedded Software Engineer	Feb 2023 – Sept 2024
<ul style="list-style-type: none">• Developed software to test ethernet communication between components• Implemented two high speed ethernet controllers for sensor input• Improved controller throughput from one hundred megabit to one gigabit• Debugged incorrect register configurations set by vendor• Debugged network level issues preventing data flow and timestamping• Identified issues with incorrect payloads that affecting service mapping operations• Developed training guide for embedded debugging and software build process• Recommended processes that reduced build time from 6 minutes to 3 minutes• Upheld network testing visualization for in-vehicle communication• Implemented common microcontroller to more than ten electronic control units• Saved the company ~ \$15-25M over five years by reducing hardware complexity	
Radar Development Engineer	July 2022 – Feb 2023
<ul style="list-style-type: none">• Enhanced GPS accuracy error from meters to centimeters using OXTS calibration tool• Streamlined test data to create an automated radar performance report• Created onboarding guide that facilitated training of new team members	
Data Analyst	June 2021 – July 2022
<ul style="list-style-type: none">• Led DFSS project in Power BI automating a cadence visualization for program management• Saved managers and planners combined fifty hours per month with automated visualization• Significantly improved accessibility from less than ten users to over five hundred users• Maintained dashboard for over two years due to increasing usage• Recognized as the most intuitive timing dashboard by dozens of users	

INTERNSHIP/STARTUP EXPERIENCE:

Mycroft AI	June 2020 – Aug 2020
Hardware Engineer Intern	
<ul style="list-style-type: none">• Minimized potential PCB manufacturing errors by optimizing via placements• Reduced prototype assembly time by three weeks to deliver to a hospital's COVID patients• Introduced wiring techniques that conserved space within mechanical prototypes	

SKILLS:

Lauterbach, C, Python, Power BI, Software Integration, Oscilloscopes

ACTIVITIES & ORGANIZATIONS:

Research Assistant – Center for Remote Sensing of Ice Sheets	May 2019 – Dec 2020
Scribe – IEEE HKN	May 2020 – May 2021
Teaching Assistant – Circuits & Electronics Lab	Jan 2019 – May 2021
Teaching Assistant – Digital Logic Design	Aug 2019 – Dec 2019
Head Coach – Royal Oak FC	Aug 2021 – June 2023

EDUCATION:

University of Michigan – Ann Arbor	
M.Eng. Electrical & Computer Engineering	Aug 2023 – Expected Dec 2024
University of Kansas – Lawrence	
B.S. Electrical Engineering GPA: 3.66/4.00	Aug 2017 – May 2021