Nathan Silverman

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EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science

May 2020

GPA: 3.48 / 4.0

Coursework: Operating Systems, Algorithms and Data Structures, Web Systems, Computer Security

may 2020

EMPLOYMENT

Cosmic Advanced Engineered Solutions

Colorado Springs, CO

Software Engineer, Intern

May 2019 - August 2019

- Built network monitoring program to parse and collect network traffic as it travels through a modem.
- Developed communication and device command tools for embedded Linux devices.
- Designed and created a full stack web application that presents collected network activity data and allows an operator to control collection devices that are in the field.
- Spearheaded development of software that receives and handles network activity data sent from devices in the field. Included database operations and inter process communication.

PROJECTS

Automated Drone Mounted Synthetic Aperture Radar Collection

Ann Arbor, MI

Project Lead, Software Engineer

January 2019 - December 2019

- Led a team of five students in working with Radiant Solutions to design an end to end automated radar collection system mounted on a DJI Matrice 600 Drone.
- Developed software to communicate between a radar collection board and an embedded Linux computer to facilitate remote radar collection during drone flight.
- Led design reviews and weekly meetings to evaluate progress and receive feedback from the project stakeholders at Radiant Solutions and faculty mentors.

University of Michigan Solar Car Team

Ann Arbor, MI

Embedded Systems Engineer, Solar Car Driver

September 2016 - September 2018

- Worked on a small team of approximately 20 students to design, build, and race a solar car 3000 km across the Australian Outback in the 2017 Bridgestone World Solar Challenge.
- Assembled, tested, and debugged custom printed circuit boards needed for the car to operate.

Carpool Scheduling Software

Ann Arbor, MI

Personal Project

July 2019

• Designed carpool scheduling software for the University of Michigan Climbing Club that matches dues paying club members seeking a ride with available carpool drivers.

Biologically Inspired Robotics and Dynamical Systems Laboratory (B.I.R.D.S)

Ann Arbor, MI

Research Assistant

May 2018 - November 2018

• Designed and built a thermal safety circuit designed to prevent motor overheating failure.

TECHNICAL SKILLS

Languages and Technologies

Languages: C++, C, Python, Bash, JavaScript, HTML, CSS, Matlab Technologies: Docker, Git, Unix, React, SQL, ZeroMQ, Node.js