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Eric D'Urso

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Education

University of Michigan, **College of Engineering**, *Ann Arbor, MI* *Aug 2022 - Present*
- BSE Computer Engineering
- GPA: 3.96

Experience

Embedded Systems Engineer, **University of Michigan Mars Rover Team**, *Ann Arbor, MI* *Sept 2022 – Present*
- Develop embedded applications for STM32 microprocessors (C)
- Build library interfaces to embedded firmware (C++, ROS)

Intern Systems Engineer, **Wolverine Radar Company**, *Ann Arbor, MI* *June 2022 – Present*
- Accelerated and optimized radar processing algorithms (SAR, Python 3, C++, CUDA)
- Developed scalable processing framework for efficient radar processing (Python 3, C++)
- Built processing task dispatching application to process requested areas (SQL, AWS)
- Built initial web-interface prototype for public data portal (NGINX, NodeJS)
- Built installable processing application deliverable for client (Docker, Bash, Linux)

Vice President of Engineering Operations, **Lightning Robotics FRC 862**, *Plymouth, MI* *May 2021 – May 2022*
- Oversaw engineering subteams to design and build competitive robot
- Managed engineering subteam leadership to ensure smooth build process (MS Office Suite, GSuite)
- Implemented project management workflow (JIRA)
- Developed and implemented team-wide training system to handle high member turnaround
- Led team to field championship at world competition

Lead Software Developer, **Lightning Robotics FRC 862**, *Plymouth, MI* *May 2020 – May 2021*
- Built neural network-based computer vision application for autonomous navigation (OpenCV, TensorFlow)
- Directed development of optimized autonomous application (Excellence in Engineering Award)
- Developed abstracted base library for general use in competitive robotics (Java, Gradle)
- Designed and implemented new member training program, relayed to other organizations
- Coordinated leadership to organize and execute community outreach events to facilitate interest in STEM

Software Developer, **Lightning Robotics FRC 862**, *Plymouth, MI* *Sept 2018 – May 2020*
- Developed framework for reliable autonomous perception and navigation (Java, Linux)

Honors, Awards, & Certifications

Lienweber Software Scholarship, **University of Michigan** *July 2023*
Legacy Award, **Lightning Robotics FRC 862** *May 2022*
Outstanding High School Student of the Year, **Engineering Society of Detroit** *April 2022*
1st Place Team in Michigan Governor's High School Cybersecurity Challenge *October 2022*
IBM AI Engineering Professional Certificate *April 2020*
Eagle Scout, **BSA**, *Unit 1537* *March 2020*