

DERIN DURAK

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EDUCATION

BS The Ohio State University, Electrical and Computer Engineering May 2026

RELEVANT EXPERIENCE

Ford Motor Company, Sunrise, FL May. 2024 – Jul. 2024

Digital Hardware Engineering - Internship

- Contributed to the development of an ADAS ECU, specializing in the design and implementation of Automotive Ethernet Physical Layer components,
- Performed compliance testing to meet industry standards and company requirements.

Buckeye AutoDrive Team, The Ohio State University Aug. 2022 – Present

CAN Bus Team Member (one year) – Electrical Hardware Integration Team Leader (one year) – Team Captain (current)

- HMI system development for autonomous engagement and monitoring,
- Designing an electrical hardware development board using Altium,
- Developing communications standard for in-vehicle subsystems using ZeroMQ and Protocol Buffers,
- Encoding and decoding CAN bus messages based on DBCs using Python.

Dept. of Elec. and Comp. Eng., The Ohio State University Aug. 2023 – Present

Mentor – Teaching Assistant

- Providing guidance to senior ECE students during their Capstone projects

ECE Web Services, The Ohio State University Feb. 2023 – May. 2024

Web Applications Editor

- Fixing and adding new content to the official website of ECE Dept. (ece.osu.edu),

Oztech Inc, Columbus, Ohio Feb. 2023 – Present

Research Intern

- Placement of lidars, radars, GPS, and cameras to their optimal location on the vehicle,
- Comparing different sensor placement profiles using a custom simulation.

FIRST Alumni & Robotics at Ohio State Sep. 2022 – Jun. 2024

Vice President

- Volunteering in FIRST related local events,
- NASA's Lunabotics Competition Electrical Sub-team Leader – Buckeye Lunabotics.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, MATLAB

Software: Altium, Siemens Mentor, Ansys SI Wave, Autodesk EAGLE, Vehicle Spy 3, LTSpice, TopSpice