

John D. Ulm

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Maineville, OH

EDUCATION

The Ohio State University, College of Engineering

B.S. in Electrical and Computer Engineering

- Graduating with Honors

Columbus, OH.

Expected: May 2026

GPA: 4.00

Kings High School

Ohio Honors Diploma

- National Merit Scholarship Finalist

Kings Mills, OH.

May 2022

GPA: 4.56

WORK EXPERIENCE

Forward Edge

Cable Technician

Sharonville, OH.

May 2023–July 2023

- Installed and replaced low-voltage data lines, cameras, APs, speakers, and data ports in compliance with electrical codes and fire codes
- Worked in both OSHA-compliant construction sites and in active-use environments

Engineering Education Department – The Ohio State University

Teaching Assistant

Columbus, OH.

August 2023–Present

- Assess technical writing skills in students over a variety of multidisciplinary projects and reports
- Review MATLAB coding exercises based upon both correctness and proper coding practices

NOTABLE PROJECTS

Fully Autonomous Robot Project and Competition

January 2023–April 2023

- Designed mechanisms that successfully completed a set of 5 distinct tasks in a limited amount of time with a multidisciplinary team of four
- Contributed to both the electrical design of the robot and to internal logic and navigation code
- Wrote full design report pertaining to the planning, construction, and execution of the robot

Honors Software Design Project

November 2022–December 2022

- Designed, programmed, and play-tested a fully functional clone of Fruit Ninja with a partner in C++
- Selected as one of twenty projects for the OSU honors engineering showcase

INVOLVEMENT AND LEADERSHIP

The Underwater Robotics Team

Navionics Sub-team Member

Columbus, OH.

August 2022–Present

- Helping to design cost-effective and practical integrated circuits for an autonomous underwater robot
- Assisting in assembly of circuit boards through hand-soldering and component management

High School Marching Band and Winter Indoor Drumline

Marching Percussion Section Leader

Kings Mills, OH.

August 2021–May 2022

- Co-leader for a 10-person group during the summer season, solo leader during the winter season
- Helped to integrate new members into practice and rehearsal routine while developing technical skills

TECHNICAL SKILLS AND HOBBIES

- **Programming:** Java, C, C++, C#, MATLAB, HTML, CSS, Python
- **Software:** Altium Designer, Unity, SolidWorks, SolidEdge, Word, Excel
- **General:** Oscilloscope Analysis, Soldering, Crimping, PCB Design