John D. Ulm

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(847) 400-4290 – Maineville, OH

EDUCATION

The Ohio State University, College of Engineering   **Columbus, OH.**

B.S. in Electrical and Computer Engineering   *Expected: May 2026*
- Graduating with Honors   GPA: 4.00

Kings High School   **Kings Mills, OH.**

Ohio Honors Diploma   *May 2022*
- National Merit Scholarship Finalist   GPA: 4.56

WORK EXPERIENCE

Battelle   **Columbus, OH.**

Electrical Engineering Co-Op   *January 2024–Present*
- Tested and troubleshooted circuit boards using hands-on analysis and by designing automated protocols
- Designed trade studies for both components and sensors to meet defense-related requirements

Engineering Education Department – The Ohio State University   **Columbus, OH.**

Teaching Assistant   *August 2023–December 2023*
- 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

Forward Edge   **Sharonville, OH.**

Cable Technician   *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

EXAMPLE 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

The Underwater Robotics Team   **Columbus, OH.**

Navionics Sub-team Member   *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

TECHNICAL SKILLS AND HOBBIES

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