

Olivia Adams

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[LinkedIn](#) ♦ [Portfolio](#)

EDUCATION

Bachelor of Science in Computer Engineering

Expected May 2026

University of Maryland, College Park (3.7 GPA)

- Minor in Robotics and Autonomous Systems
- Recipient of the Presidential Scholarship and Member of Dean's List

SKILLS

Electrical: Controls Systems and Theory, Signal Analysis, Integrated Circuit Design, FPGA, Oscilloscope

Software: ROS2, Python, Linux, Java, Matlab, C, Assembly, C++, Real-time software in embedded systems, Microsoft Suite, Algorithms, Data Structures, Operating Systems

Other Skills: Ceramics, digital and film photography, Balinese Gamelan, rock climbing, oil pastels

TECHNICAL EXPERIENCE

UMD Submarine Capstone Project

Sep 2025 - Present

- Developing an autonomous underwater vehicle using a Raspberry Pi and Arduino microcontroller for perception, control, and navigation in a multidisciplinary capstone team
- Implemented UART-based serial communication between the Raspberry Pi and Arduino to enable reliable command, telemetry, and sensor data exchange, supporting real-time control
- Integrated embedded software and onboard sensors and performed system-level integration, debugging, and validation of hardware-software interfaces

UMD Robotic Pathfinding Class Project

Sep 2024 - Dec 2024

- Designed and implemented a program for autonomous control of a UR3 robot to pick up and stack three randomly placed cubes in a team of three students
- Developed algorithms in Python using principles from forward and inverse kinematics and vision detection

WORK AND LEADERSHIP EXPERIENCE

Quality Management Program Intern

May 2025 - Aug 2025

American Petroleum Institute (API), Washington, DC

- Reviewed 160+ audit plans for compliance with ISO 9001, API Q1, and API Monogram/APIQR requirements
- Developed a Python and Excel-based automation tool that streamlined the audit review process
- Received training in quality management systems and APIQR operations, gaining experience in both technical and compliance-driven aspects of engineering

Academic Peer Mentor

Sep 2024 - Dec 2024

Technology and Consequences: Engineering, Ethics, and Humanity at University of Maryland

- Assisted in teaching a course of 76 students focused on the societal and ethical impacts of engineering and the interaction between technology and social systems
- Led discussions, facilitated classroom activities, supported grading and provided assignment feedback

Dish Machine Operator

May 2023 - Aug 2023

Aramark, Yosemite National Park

- Operated commercial dishwashing equipment to ensure timely cleaning and sanitization
- Worked efficiently in a fast-paced environment to meet the demands of a busy restaurant kitchen