Andrew (Andy) Pavlosky

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EDUCATION

University of Maryland, College Park | *College Park, MD*   Expected May 2026

BS, Computer Engineering

BS, Mathematics

- GPA: 4.00/4.00
- Relevant Coursework: Programming Languages, Algorithms, Introduction to Computer Systems, Probability Theory, Combinatorics and Graph Theory, Honors Multivariable Calculus, Linear Algebra, & Diff. Equations

SKILLS

Programming Languages: Java, Python, C/C++, MATLAB
Tools & Frameworks: Git/GitHub, Visual Studio, VSCode, Eclipse
Hardware: Arduino, Soldering, 3D Printing

EXPERIENCE

University of Maryland, College Park   Aug. 2023 - Present

CMSC132 Teaching Assistant

- Hold office hours to assist students with course material on introductory algorithms and data structures
- Lead discussion sections for approx. 30 students two times a week and implement student feedback

National Institute of Standards and Technology (NIST)   June - Aug. 2023

Lab Automation Intern

- Implemented hardware-controlled test automation for long-term reliability of power electronic devices
- Designed and assembled printed circuit boards (PCBs) for measurement circuitry interface
- Created microcontroller architecture and write control/interface software using Arduino, SPI, I²C, and WebSockets

PROJECTS

Data Extraction Over-Terrain Vehicle | https://github.com/andrue-pabloske/Data-Extraction-F22

- Worked with team of 7 other students to create autonomous vehicle to complete mission objectives including reading duty cycle of PWM signal, detecting magnetism of a material, and navigating through an obstacle course
- Implemented modules to interface with vehicle sensor suite and navigation algorithms in Arduino
- Designed and assembled electronics system to drive vehicle propulsion and mission completion

Hobbies/Interests: weightlifting, rock climbing, cooking, playing guitar, flexibility training/yoga