

# Andy Pavlosky

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## EDUCATION

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**University of Maryland, College Park** | College Park, MD

Expected May 2025

BS, Computer Science

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

## EXPERIENCE

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**University of Maryland, College Park**

Aug. - Dec. 2023

CMSC132 Teaching Assistant

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

**National Institute of Standards and Technology (NIST)**

June - Aug. 2023

Lab Automation Intern

- Implement hardware-controlled test automation for long-term reliability of power electronic devices
- Design and assemble printed circuit boards (PCBs) for measurement circuitry interface
- Create microcontroller architecture and write control/interface software using Arduino, SPI, I<sup>2</sup>C, and WebSockets

**FIRST Robotics Competition Team 5945**

Sept. 2019 - April 2021

Control Systems Engineer

- Worked with team of 3 other engineers to wire robot control system and write autonomous and teleoperated robot code using WPILib robotics library for Java, which led the team to reach semifinals in its first competition
- Built COVID supplies for local health workers, including face shields, isolation booths, and hand-sanitizer dispensers after competition season was canceled for the pandemic

## PROJECTS

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**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

## SKILLS

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

**Hobbies/Interests:** weightlifting, rock climbing, cooking, playing guitar, yoga, karaoke