Andy Pavlosky

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EDUCATION

University of Maryland, College Park | *College Park, MD*   Expected May 2025

BS, Computer Engineering

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

EXPERIENCE

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

Student Researcher

- 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^2C, and WebSockets

Howard Community College   Feb. - May 2022

Teaching Assistant for Chinese 102

- Delivered lectures, prepared materials, and led review sessions for 20+ students meeting 3 times a week
- Met with professor weekly to discuss student engagement, pedagogical strategies, and reported student feedback

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

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

- **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