Andy Pavlosky

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EDUCATION

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

SKILLS

- **Programming Languages**: Java, Python, C/C++, MATLAB, R, SQL
- **Tools & Frameworks**: Git, Visual Studio, VSCode, Eclipse, ROS, Scikit-learn, Microsoft Office, Google Suite
- **Hardware**: Arduino, Soldering, 3D Printing

EXPERIENCE

National Institute of Standards and Technology (NIST) June - Aug. 2023
Student Researcher, Physical Measurement Laboratory

- Implement hardware-controlled test automation for long-term reliability of power electronic devices
- Aid with design of microcontroller architecture and measurement circuitry interface

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 and reported student feedback to improve pedagogical strategies, such as fostering growth mindset

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 hospitals, including face shields, isolation booths, and hand-sanitizer dispensers

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 code to interface with vehicle sensor suite and navigation algorithms in Arduino
- Designed and assembled electronics system to drive vehicle propulsion and objective completion

Machine Learning Course by Andrew Ng | https://github.com/andrue-pabloske/Coursera-Machine-Learning

- Wrote machine learning algorithms using MATLAB such as linear and logistic regression using gradient descent
- Gained an introductory understanding of the aforementioned algorithms and concepts such as regularization, bias vs. variance, cross validation, and dimensionality reduction

Nand2tetris Suite of Projects | https://github.com/andrue-pabloske/nand2tetris

- Created a computer hardware platform using a simple HDL and an assembler, VM translator, and compiler using Python as specified at nand2tetris.org
- Gained an introductory understanding of computer architecture, compilers, and assembly programming