ANDREW STEVENS

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Website Portfolio: www.andrewstevens.engineering

EDUCATION

Virginia Tech– Blacksburg, VA **Expected May 2029**
B.S. Electrical & Computer Engineering - Sophomore standing by credits **GPA: 4.0**
Selected Courses: Linear Algebra, Digital Systems, Computational Eng, Electromagnetic Physics, Differential Equations

Academies Of Loudoun / Stone Bridge High School– Ashburn, VA **June 2025**
High School Diploma– Advanced Diploma **GPA: 4.62**

PROFESSIONAL EXPERIENCE

Current Owner And Founder **March 2021 - Present**
Andy's 3D Workshop – Ashburn, VA
- Established the company and developed business plans for optimized sales growth
- Created the company's online store on Etsy with over 1,600 sales and a 5-star rating
- Designed and prototyped all products, including 1 patented with US Patent & Trademark Office
- Sold products to businesses and partnered with 2 local stores in Northern Virginia

Substitute Teacher **August 2025 - Present**
Loudoun County Public Schools – Ashburn, VA
- Assist in managing classrooms, delivering lesson plans, and supporting student learning in a structured environment
- Maintain continuity of learning by implementing lesson plans and ensuring a productive classroom environment
- Adapt teaching strategies to meet the diverse needs of students throughout grades K-12

ADDITIONAL EXPERIENCE

Testing & Electronics **September 2025 - Present**
Baja SAE – Virginia Tech
- Developed a custom microcontroller GPS tracker to track position and velocity, to improve race performance analysis
- Made a Python interface to visualize sensor data at any point during a race, improving diagnostics and evaluation
- Developing telemetry for real time monitoring of vehicle health in competitions, improving reliability and safety
- Learned Ki-CAD to design custom professional PCBs which improves the system reliability for the Baja electronics suite
- Designed the electronics architecture for the Mini-Baja RC car, coordinating sensor networks and power delivery

ECE Subteam **September 2025 - Present**
VT CRO Workcell – Virginia Tech
- Designed an automated calibration system in Python with computer vision to better 3D print precision and efficiency
- Developing an automated material handling system to have filament runout detection and multi-material 3D printing

Engineering Lead **August 2023 - June 2025**
Vex Robotics – Academies Of Loudoun
- Led the engineering design and documentation for a VEX Robotics team qualified for the State Championship
- Applied prototyping and project management skills to build competitive robots and guide strategy to the State level

Ubuntu Linux Head **August 2022 - June 2025**
Cyber Patriots – Stone Bridge HS
- Managed Ubuntu Linux systems and was charged with cybersecurity hardening for competition environments
- Ranked top 100 nationally in the highest division with the Stone Bridge High School team in the 2024-25 season

Founder And President **November 2023 - February 2025**
Teen Tech Help – Academies Of Loudoun
- Founded and led a technological help volunteer group of over 20 members to assist elderly at Ashby Ponds with digital literacy and device troubleshooting
- Coordinated partnerships, student training, and tech sessions to improve community engagement with technology

SKILLS & INTERESTS

- Technical Skills: 3D CAD Modeling, Certified in Arduino Circuitry, C#, C++, Python, Microsoft Suite, MATLAB
- Soft Skills: Easily Adaptable, Self-Motivation, Problem Solving, Project Management, Teamwork, Time Management
- Personal Projects: Developed a BLE-controlled ESP32 RC car controlled by an iOS app, a Python-based system using YOLOv8 for custom control via hand tracking, and “The Cube”, an Arduino-powered interactive puzzle box integrating sensors, displays, and logic-based progression