

# ANDREW STEVENS

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## 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**

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## 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
  - Supervise students to ensure their safety in the classroom and promote positive classroom behaviors
  - Adapt teaching strategies to meet the diverse needs of students throughout grades K-12
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## 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 seniors at Ashby Ponds with digital literacy and device troubleshooting
  - Coordinated partnerships, student training, and tech sessions to improve community engagement with technology
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## 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