

Matthew Wool

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EDUCATION

Bucknell University | Lewisburg, PA

Aug 2025

Bachelor of Science: Computer Engineering

Chabad Exectutive Admin, IEEE, Baja SAE

Lower Merion High School | Ardmore, PA

Sep 2020 - Jun 2025

Lower Merion High School

3.8 GPA, AP Scholar, National Honors Society, 4 Years Varsity Ice Hockey

PROFESSIONAL EXPERIENCE

Legal Document Courier

Rapid Delivery Service | Philadelphia, PA

- Drive up to 5 hours to deliver and serve subpoenas and other legal documents to businesses in a timely and professional manner.
- Maintained secure handling, accurate documentation, and proof of delivery for all served materials

Customer Support Intern

Rapid Delivery Service

- Provided customer service by communicating with clients, entering courier jobs, and ensuring accurate pickup and delivery information.
- Dispatched and supported bikers and drivers by assigning jobs, providing delivery details, and assisting with client updates and operational needs.

Social Media Manager/Shorts Creator

Freelance

- Provided freelance video editing services for YouTubers and local businesses, specializing in creating Shorts optimized for engagement and cross-platform growth.
- Collaborated directly with clients to repurpose long-form content into concise, high-impact videos, helping expand brand visibility and audience reach.

Office Intern

Dane Fine Art | Lewisburg, PA

- Organized and maintained both digital and physical records of artwork, ensuring accuracy and accessibility for inventory and archival purposes.
- Delivered day-to-day operational support by efficiently preparing and uploading artwork to online auction platforms.

PERSONAL PROJECTS

iBook G3 Restorations

Feb 2024 - Present

- Restored vintage iBook G3 laptops by diagnosing and repairing failing hardware (boards, hard drives, RAM) and upgrading components to extend functionality.
- Reinstalled and configured Mac OS 9/X software, optimized legacy drivers, and built stable, usable systems from early-2000s hardware.
- Rebuilt battery utilizing spotwelding and nickel strips allowing the previously tethered laptop to operate cable free

Designing Wii Portable

Jul 2025 - Present

- Currently engineering a custom portable Nintendo Wii, including motherboard trimming, voltage regulation, and battery integration.
- Designing and fabricating a custom handheld chassis with a integrated display, controls, and optimized cooling system.

ESP32 Based AI Desktop Companion

Aug 2026 - Present

- Developed an AI desktop companion using Python and ESP32 hardware with voice recognition, wake-word detection, computer vision, animated expressions, and conversational AI.
- Integrated hardware and software through serial communication, sensor input, application control, persistent memory, and latency optimization for responsive real-time interaction.

SKILLS

Computer Hardware Repair, Soldering, Circuit Analysis & Debugging, Project Management, Digital Content Creation, Leadership, Team Collaboration, Python, ESP32, FPGA Development, Embedded Systems, Digital Logic, UART, Sensor Integration, Circuit Design, Soldering, Spot Welding, Oscilloscope Use, Multimeter Use, Computer Hardware Repair, CAD, 3D Printing, Debugging