

Alexander Weir

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EDUCATION

B.S. in Computer Engineering – Minors in Computer Science, Math, and Physics

Anticipated May 2028

Liberty University, Lynchburg, VA

- Earned 50+ college credits at Central Piedmont Community College
- Member of Phi Theta Kappa Honor Society and Liberty Honors Program
- Named to the CPCC President's List and Liberty Dean's List
- System Administrator for the High-Performance Computing Club and a Linux Administrator for the CCDC team

CERTIFICATIONS

- CompTIA A+, Network+, Security+, Linux+, and CySA+
- Microsoft 365 Fundamentals, Azure Fundamentals, and Office Associate
- Certified SolidWorks Professional (CSWP) and Sheet Metal Professional (CSWP-SM)

TECHNICAL SKILLS

- Languages (basic knowledge): Verilog, Bash, C++, Java, Python, C#, JavaScript, Lisp, and PowerShell
- Operating Systems: Windows, macOS, and Linux (RHEL, Debian, and Arch based)
- Tools and Software: Vivado, Vim, VMware, vSphere, Proxmox, Azure, Apache2/nginx, Git, Excel, and SolidWorks
- Theory: excellent OSI model knowledge
- Other: several years of A/V volunteer experience, particularly in sound

WORK EXPERIENCE

Cabinetmaker's Apprentice, Old School Joinery

May 2021 – Aug. 2024

- Assist with assembling face frames and cabinets
- Use shop machines to route, cut, shape, and plane raw wood

Maintenance Technician, Christ Covenant Church

Jan. 2024 – Aug. 2024; Dec 2024

- Assist with the maintenance, repairs, and upkeep of the Christ Covenant Church and Covenant Day School campus
- Assist with plumbing, drywall, painting, carpentry, and electrical work

A/V Technician; Physics Tutor, Liberty University

Nov. 2024 – Sept. 2025; Oct. 2025 – Current

- Operate various production-quality cameras for and during large live events
- Grade and provide feedback on Physics lab reports

Engineering Intern, Valmet

May 2025 – August 2025

- Design components using SolidWorks for use in high-heat, corrosive environments in and around power and recovery boilers
- Automate SolidWorks assembly design processes using AutomateWorks and top-down modeling

PROJECTS

- Built six custom PCs, two for personal projects: one to run SolidWorks and one to run a Proxmox homelab
- Replaced home router with PC running OPNsense
- Reconfigured network structure for High Performance Computing club
- Ran a Minecraft server and web server for students at an online school, using Azure Virtual Machines, Apache HTTP Servers, and Drupal CMS. Additionally used regular expressions and bash scripting for log organization and Google Sheets and Forms for user tracking and data visualization

ACHIEVEMENTS

- Competed in 2025 Collegiate Cyber Defense Competition as a Linux admin; team reached 3rd in regionals; in preparation, studied hardening, systems administration, and networking/firewall management
- Reached the grade of Cadet Chief Master Sergeant in the Civil Air Patrol
- Reached first in North Carolina as a team in the CyberPatriot XII cybersecurity competition