Lillian Skylar Danforth

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Education

Cyber Security & Network Administration   January 2023 — May 2025
Virginia Western Community College, Roanoke VA
Relevant Studies: Cisco Networking, Linux Server Administration, Windows Server Administration, Database Management, Cloud Computing AWS, Cyber Security, Python, Java, Computer Troubleshooting and Repair, Agile, Scrum

Electrical Engineering   September 2021 — May 2022
Rose-Hulman Institute of Technology, Terre Haute IN
Relevent Studies: DC Circuits, Python, Java, Arduino, Calculus, Physics, Engineering Team Robotics Project

Trade and Industrial Education: Electronics Technology   August 2017 — May 2021
Floyd S. Kay Technical Center, Lexington VA
Relevent Studies: DC Circuits, AC Circuits, Digital Electronics, Robotics, Computer Programming, Computer Repair, Soldering, Electronic Prototyping

Experience

Technical Book Editor   March 2024 — May 2024
First pass and technical edit of the "Introduction to Python and Spice for Electrical and Computer Engineers" textbook authored by Jim Squire.

Skills

Operating Systems

- **Linux:** 6+ years experience with desktop, laptop, and server environments.
  Proficent with main Distro families: NixOS, Debian, Arch, Red Hat and Gentoo.
  Additional experience with derived distros like Ubuntu Server, Fedora, PopOS!, EndeavourOS and Nobara.
  Experience with managing remote and local installations including automatic updates, fully automated installations with `nixos-anywhere`, and fully declaritive whole system configuration.
  Exeprience running various self hosted services inluding: Jellyfin, TheLounge IRC Client, NextCloud, Minecraft, HTTPS, Reverse Proxy, Caddy

- **Windows:** Experienced with Windows Vista through Windows 11. Familiar with WSL, WSA, and virtual machine setups.

- **Mac OS X:** Proficient with versions from Tiger to Sequoia. Skilled in installation, troubleshooting, recovery, and tools like iCloud and AirPlay.

Programming

- Nix: Contributed to Nixpkgs and extensive NixOS configuration.
- Arduino: Won multiple school robot-building and programming competitions.
- Python: Experienced in scripting and basic tool development.
- Java: Basic programming skills.
- Bash: Proficient in scripting and automation.

Hardware
Software

Personal

Projects