

# Andrew Woodlee

## Cybersecurity Engineer

✉ [anw@andrewnw.com](mailto:anw@andrewnw.com) ☎ (256) 755-9555 🔗 [andrewnw.xyz](https://andrewnw.xyz) [in andrew-woodlee](https://in.andrew-woodlee.com) [Cybershell](https://cybershell.com)

### Summary

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Devoted student of Cybersecurity Engineering at the University of Alabama in Huntsville. Proficient at developing a variety of applications including web platforms, Arduino projects, and tools and scripts. Able to comprehend new skills or programming languages efficiently and quickly. Hosts his own mail and web servers.

### Education

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**University of Alabama in Huntsville**, BS in Cybersecurity Engineering Aug 2019 – Dec 2024

- **Coursework:** Secure Software Development, Intro to Embedded Systems, Intro to Cybersecurity Engineering, Software Reverse Engineering, System Security, Network Security

### Skills

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**Electrical:** Soldering - Intermediate

**DevOps:** CI/CD - Intermediate | Git - Advanced | Gitea - Intermediate | GitHub - Intermediate | Docker - Intermediate

**Systems and Servers:** Linux - Advanced | C/C++ - Advanced | Go - Advanced | JavaScript - Advanced | MongoDB - Intermediate | Python - Advanced

**Web Development:** HTML - Intermediate | JavaScript - Advanced

**Embedded Systems:** ESP-32 - Advanced | Arduino - Advanced | MSP430 - Intermediate

**Reverse engineering:** IDA Pro - Intermediate | Ghidra - Intermediate

### Experience

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**Research Assistant II**, The University of Alabama System Management and Production Center – Huntsville, Alabama June 2023 – July 2024

- Lead on Arduino programming for two Toy Fire trucks
- Added enhancements to the audio playback and movement of the truck
- Setup Linux on a Raspberry Pi for a PX 100 Robotic Arm that went on a STEM bus

### Projects

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**Wallet Transformer Monitor** Sept 2023 – May 2024

- Senior Design Project that monitors a single-phase 120V transformer using an ESP-32 and a web dashboard
- Wrote ESP-32 code that interfaced with an energy sensing chip, temperature sensors, WiFi, and MQTT over SSL.
- Studied and assembled voltage and current sensing, full-bridge rectifier circuits safely

**Backy** (<https://backy.cybershell.xyz>)

- Application that allows many commands to be run on many hosts.
- Allows easy configuration of executable commands
- Commands can be grouped in list to run in specific order
- Notifications on completion and failure
- Allows for commands to be run on many hosts over SSH

**Digital Telepresence** (<https://git.digitaltelepresence.com/digital-telepresence/>)

Apr 2022 – Mar 2024

- DTP is an online application suite for the web
- Helped to build a new system from the ground up

- Independently designed novel solutions with minimal guidance
- Service-oriented MVVM development and separation of concerns