## Andrew Woodlee

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linkedin.com/in/andrew-woodlee

github.com/Cybersshell

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Education	
University of Alabama in Huntsville, MS in Cybersecurity (Engineering track)	Jan 2025 – present
<ul> <li>University of Alabama in Huntsville, BS in Cybersecurity Engineering</li> <li>Coursework: Secure Software Development, Intro to Embedded Systems, Intro to Cyber Software Reverse Engineering, System Security, Network Security</li> </ul>	Aug 2019 – Dec 2024 ersecurity Engineering,
Experience	
<ul> <li>Research Assistant II, The University of Alabama System Management and Production Center – Huntsville, Alabama</li> <li>Led Arduino programming for two Toy Fire trucks</li> <li>Added enhancements to the audio playback and movement of the truck</li> <li>Setup Linux on a Raspberry Pi for a PX 100 Robotic Arm that went on a STEM bus</li> </ul>	June 2023 – July 2024
Skills	
Systems and Servers: Linux   C/C++   Go   JavaScript   MongoDB   Python	
DevOps: Git   CI/CD   Gitea   GitHub   Docker	
Embedded Systems: ESP-32   Arduino   MSP430	
Web Development: HTML   JavaScript	
Reverse engineering: IDA Pro   Ghidra	
Electrical: Soldering	
Certifications	
Security+ Certified Certified in March 2025	
Projects	
<ul> <li>Backy (https://backy.cybershell.xyz)</li> <li>Used Go libraries to create a command execution tool</li> <li>Used Go's native SSH library to run commands over SSH</li> <li>Used Go libraries to create a YAML configuration</li> <li>Configuration of notifications on completion and failure</li> </ul>	Sept 2022 – present
<ul> <li>Home server with remote access</li> <li>Used WireGuard to access home server from VPS</li> <li>Hosted some web applications like Nextcloud</li> <li>Secured SSH access over VPN</li> </ul>	Sept 2022 – present
<ul> <li>Cloud server administration</li> <li>Hosted a mail server (<u>https://stalw.art</u>) uses FoundationDB as a backend</li> <li>Secured FoundationDB with TLS certificates</li> <li>Hosted many applications including Gitea, Linkwarden, and others using Docker</li> <li>Backed up data regularly and securely using Restic/Autorestic</li> <li>Used Backy to automate backups</li> </ul>	Sept 2023 – present

## 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

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

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