Sept 2023 – present

## Andrew Woodlee

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Education	
University of Alabama in Huntsville, MS in Cybersecurity (Engineering track)	Jan 2025 – present
University of Alabama in Huntsville, BS in Cybersecurity Engineering • Coursework: Secure Software Development, Intro to Embedded Systems, Intro to Cy Software Reverse Engineering, System Security, Network Security	Aug 2019 – Dec 2024 bersecurity Engineering,
Experience	
Research Assistant II, The University of Alabama System Management and Production Center – Huntsville, Alabama  • Led 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	June 2023 – July 2024
Skills	
I use Linux daily, and have experience with $C/C++$ , Go, and JavaScript. I admit Docker and Backy.	nister servers daily, using
I have extensive experience using Git, Git hosting, and CI/CD pipelines to develop automate deployments.	software, host code, and
My use of Embedded Systems platforms include ESP-32, Arduino, and MSP430.	
My web development experience includes using HTML templating using Pug, a Jav NodeJS for backend development.	aScript library. I also used
During my time at UAH, I used IDA Pro and Ghidra for reverse engineering.	
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
Home server with remote access  • Used WireGuard to access home server from VPS  • Hosted some web applications like Nextcloud  • Secured SSH access over VPN	Sept 2022 – present
Cloud server administration	Sept 2023 – present

- Hosted a mail server (<a href="https://stalw.art">https://stalw.art</a>) uses FoundationDB as a backend
- Secured FoundationDB with TLS certificates
- Hosted many applications including Gitea, Linkwarden, and others using Docker
- Backed up data regularly and securely using Restic/Autorestic
- Used Backy to automate backups

## **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 (<a href="https://git.digitaltelepresence.com/digital-telepresence/">https://git.digitaltelepresence.com/digital-telepresence/</a>)

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