# Andrew Woodlee

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# Summary \_

Graduate 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

**University of Alabama in Huntsville**, MS in Cybersecurity (Engineering track)

Jan 2025 – present

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 \_

Electrical: Soldering - Intermediate

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

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 \_\_\_\_\_

Research Assistant II, The University of Alabama System Management and Production

June 2023 - July 2024

Center - Huntsville, Alabama

- 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 \_\_

# Home server with remote access

Sept 2022 – present

- Used WireGuard to access home server
- Home server hosts some web applications like Nextcloud

#### Cloud servers with backups

Sept 2023 – present

- Hosts a mail server (https://stalw.art) that uses FoundationDB as a backend
- FoundationDB is secured with a TLS certificates

#### Backy (<a href="https://backy.cybershell.xyz">https://backy.cybershell.xyz</a>)

Sept 2022 – present

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

# **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

# Volunteer \_\_\_\_\_

# Cybersecurity Club at UAH

• Attended CCDC qualifiers in 2024

# Awards \_

# **Merit Tuition Scholarship**

• Awarded by UAH in 2019

# Dean's List

• Awarded by UAH in May 2023