

Tyler Henry

[Portfolio Site](#) | resume.26@tylrhnr.com | (385) 316-8881 | Fort Collins, CO

Experience

Radar Software Engineer

Nov. 2025 - Present

Anduril Industries, Fort Collins, CO - *Secret Clearance*

- Worked with a multi-disciplinary team to bring up new radars for active vehicle protection from low, fast-moving targets (e.g. RPG's), as well as high, slow-moving targets (e.g. drones).
- Developed a simulation framework to ascertain the tracking performance of the radar under various target scenarios

F-16 Radar Software Engineer

Dec. 2024 - Oct. 2025

Air Force, Hill AFB, UT - *Secret Clearance*

- Supported ongoing updates, additions, and fixes on a large-scale, real-time, safety-critical system.
- Developed a program to remove the team's dependency on multiple operating systems, custom tools, and an out-of-date version control system to well-supported, flexible software.

Computer Science Intern (Radar)

Apr. 2024 - Dec. 2024

Air Force, Hill AFB, UT

- Led the development of a drone-mounted Ground Penetrating Radar (GPR) system, integrating a Software Defined Radio (SDR) and custom signal processing algorithms, which achieved an 80x reduction in system cost compared to existing methods.
- Served as the primary software developer for the GPR system, contributing to a Master's Degree research project focused on innovative explosive device detection.
- Developed and integrated software for seamless communication between ground station and drone-mounted systems, enabling real-time wireless exchange of commands and signal data.

Computer Science Intern (PERN Web Dev)

Jul. 2023 - Apr. 2024

Air Force, Hill AFB, UT

- Developed a website with the PERN stack to host trainings, information, and forms that were previously done on paper, saving administrators 15 hours a week.
- Added complex site features to allow employees and operators to submit, maintain, and fulfill project-critical 3D print requests.

Education

Bachelor of Science, Computer Science

Dec. 2024

Utah Valley University

- Magna Cum Laude
- Developed a computer vision program that processed drone-captured aerial images to identify their corresponding locations in satellite imagery, allowing accurate navigation in GNSS-denied environments.
- Created a GPS spoofing detection system in Rust for embedded Linux devices, leveraging existing IMU and GPS modules on drones to enhance security.

Associates of Science, Computer Science

May 2023

Technical Skills

- | | | |
|----------------------|-----------------------------|----------------|
| • Rust | • Digital Signal Processing | • Nix |
| • C/C++ | • Embedded Development | • Linux |
| • Python | • Software Defined Radio | • Git |
| • Full-Stack Web Dev | • Solidworks (CSWA) | • Drone Design |

For more information and projects, please visit my portfolio website at tylrhnr.github.io