Andrew Grow

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Summary

Dedicated embedded software engineer with a strong foundation in diagnosing, developing, and testing embedded systems for safety-critical defense applications. Adept at developing high-complexity solutions with strong problem-solving skills and a drive to develop cutting edge technology.

Skills & Abilities

- C/C++, C#, Python, Java, HTML
- ARM-Cortex, Embedded Linux, FPGA
- I2C, SPI, UART, TCP/IP, CAN
- Tools: Git, Docker, Jenkins, JIRA, Bitbucket, Visual Studio
- Fast Learner, Detail-Oriented, Creative Problem Solver

Experience

Naval Surface Warfare Center Dahlgren Division, Dahlgren, Va

Embedded Software Engineer May 2023 – Present

- Developed, tested, and demonstrated embedded weapon control systems across multiple platforms, weapon vendors, and technologies.
- Collaborated with external sponsors and peer disciplines to satisfy project requirements
- Managed and enhanced a suite of internal tools for embedded systems to facilitate firmware upgrades and guarantee device stability
- Delivered technical presentations and documentation to internal and external stakeholders, ensuring clear communication of project progress, challenges, and needs
- Diagnosed and performed board bring-up on new hardware components

Science, Mathematics, and Research for Transformation Intern June 2022 - August 2022

- Developed test tools for use with weapon control systems
- Performed testing of multiple hardware and software products to test documentation

STEM Student Employment Program Intern June 2021 - August 2021

- Performed code fixes as assigned to embedded weapon control software

Grace Christian School, Staunton, Va

Computer Science Teacher Fall 2019, Spring 2022

- Taught basic electronics at the middle school level
- Taught C and C++ at the high school level

Education

Old Dominion University, Norfolk, Va

BS in Computer Engineering May 2023

- Minors in Computer Science and Electrical Engineering
- Undergraduate thesis developing 5G connected IoT gateway and RF measurement platform
- Capstone project developing ML pipeline in ROS based autonomous vehicle

University of Colorado Boulder, Online

Linux System Programming and Introduction to Buildroot February 2025