

Forrest L. Bland

Palm Bay, Florida

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SECRET CLEARANCE

EDUCATION

Purdue University

West Lafayette, IN

Master of Science in Electrical & Computer Engineering

April 2022

- **GPA:** 3.46 / 4.0
- **Relevant Coursework:** Deep Learning, Parallel Computing, Compilers

University of South Florida

Tampa, FL

Bachelor of Science in Computer Engineering

December 2019

- **GPA:** 3.71 / 4.0
- **Honors:** Magna Cum Laude
- **Relevant Coursework:** General Engineering, Software development, FPGAs & ASICs

WORK & LEADERSHIP EXPERIENCE

Northrop Grumman

Melbourne, FL

Principal Software Engineer, Lab Software

March 2022 – Current

- Maintain software in a lab environment that supports hundreds of users
- Leading a software project that involves upgrading a bundle of software from 32bit to 64bit during active development and testing (C++ and Python)
- Integrating the systems across the lab during the upgrade, performing hardware checkouts, and verifying system functionality.
- Communicating with other team members to help resolve issues found in the lab.
- Leveraging technical experience to assist newer software engineers on the team with their projects.

Software Engineer, EOA (Enterprise Open Architecture)

December 2019 – March 2022

- Designed, developed, and tested multiple projects in Java, C++, and Python.
- Used Kubernetes, Docker, and Jenkins to containerize and deploy these projects across multiple architectures (X86_64 and ARM64).
- Worked with schema-based message generators, encoders/decoders, and utilized Google Test for unit testing C++ projects.
- Used cross-compilation toolchains to build ARM64 binaries on x86_64 hosts and Windows binaries on Windows hosts.
- Created and presented demos to upper management and customers to demonstrate product functionality and future ideas.
- Worked in an Agile environment using the Atlassian Suite – Jira, Bitbucket, Confluence, Fisheye/Crucible, Bitbucket and Artifactory.

Associate Software Engineer, VMS (Vehicle Management System)

February 2019 – December 2019

- Worked on a VMS with a large team with multiple subsystems.
- Developed, tested, and troubleshoot an RTOS (Real Time Operating System) in Python and C++
- Integrated and resolved software/hardware problems for critical components in the VMS.
- Replicated and resolved problems written by other testers.

SKILLS

Languages: C/C++, Python, Java, VueJS

Technical Skills: GDB, Valgrind, Atlassian Tools, Kubernetes, Docker, Jenkins, Nexus, Git, Bitbucket