

Rong Zheng

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EXPERIENCE

Lockheed Martin

Orlando, FL

Software Engineer (Missile and Fire Control)

Oct 2022 — Present

- Actively involved in the Advanced Threat Detection System (ATWS) program, specializing in network communications and data handling.
- Led a team of seven software engineers as the Team Lead, dedicated to enhancing and refining the software utilized in the Missile Launch Detector (MLD) system for F-22.
- Contributed to crucial production support activities, ensuring the seamless operation of the MLD system.
- Successfully implemented network tunneling techniques to optimize sensor communication through a fiber network, leading to notable improvements in performance and efficiency.

Software Engineer Associate (Missile and Fire Control)

June 2020 — Oct 2022

- Engaged in embedded C++ programming environment for the Joint-Air-To-Ground Missile (JAGM) program, focusing on telemetry collection, message handling, and data processing.
- Executed Formal Qualification Testing (FQT) simulations and official tests for clients, ensuring compliance. Streamlined testing processes by introducing Python-based automated test scripts for data analysis, resulting in reduced testing duration and enhanced efficiency.
- Orchestrated the architecture, design, and development of novel software features and hardware devices within internal tool frameworks to amplify product capabilities. Achieved a 50% reduction in data processing latency, resolved runtime errors, and enhanced memory utilization by employing root cause analysis and test-driven development methodology.
- Established and improved the GitLab CI/CD pipeline using YAML scripts, automating the build and deployment processes across multiple environments.
- Proficient in tools such as C++, C, Python, QT Creator, Git, CMake, Docker, device drivers, TCP/Multicast UDP, Shell Scripting, Automation Scripting, Agile, JIRA, Confluence, Linux, Windows, and holds an Active DoD Secret Clearance.

Ford Motor Company

Sunrise, FL

Manufacturing Software Developer Co-op (SYNC Infotainment System)

Jan 2020 — May 2020

- Utilized C++ on Linux, batch script on Windows, and bash shell script on device builds to conduct technical debugging, troubleshooting, and log analysis, identifying the root causes of software failures during manufacturing runs.
- Communicated software sanity test results and provided comprehensive status updates to the Software Development Manager and Product Development Team.

Randstad Technologies US

Fort Lauderdale, FL

Embedded Software Engineer Intern (Caterpillar Inc.)

May 2019 — Jan 2020

- Conducted unit testing for AIS (Autonomous Infrastructure Software) and CPM (Caterpillar Production Measurement), ensuring software quality and functionality. Employed Object-Oriented programming in C++ to debug application software.
- Implemented new features in accordance with user stories and loaded them onto an Engine Control Module (ECM) for integration testing using SSH.
- Proficient in tools such as C++, Git, Agile methodologies, SSH, Unix/Linux, Eclipse, Engine Control Module (ECM/ECU), and CAN Bus.

EDUCATION

Florida Atlantic University

Bachelors in **Computer Engineering**, Bachelors in **Computer Science**

Graduated May 2020

- GPA : 3.77 / 4.00, Magna Cum Laude