Jeremy Laughlin

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Professional Summary

Accomplished Software Engineer with a strong background in developing advanced algorithms for embedded systems within the aerospace and defense industry. Expertise in multi-sensor data fusion, electro-optical sensor systems, and signal processing algorithms that enhance situational awareness for operators. Proven track record of analyzing complex system performance issues, leading technical teams, and driving innovation in high-stakes environments. Adept at collaborating with senior technical staff and operating within Agile development frameworks to deliver robust solutions for the customer.

Experience

Lockheed Martin 2020 – Present
Staff Software Engineer

- Designed and developed data association algorithms for multi-sensor environments on cutting-edge aerospace platforms, providing pilots with enhanced situational awareness.
- Analyzed data from flight tests to diagnose root causes of issues reported by pilots, contributing to system reliability and performance improvements.
- Provided technical guidance to software development teams, ensuring accurate implementation of complex designs and adherence to best practices.
- Collaborated closely with senior technical personnel to refine designs and proactively resolve challenges before escalation.
- Operated within an Agile development environment, leveraging continuous integration practices to streamline software deployment.
- Developed unified software solutions for deployment across multiple embedded platforms with varying architectures, ensuring consistency and efficiency.

Raytheon Technologies 2015 – 2020
Senior Systems Engineer

- Developed sophisticated signal processing algorithms for deployment to embedded systems, focusing on electro-optical sensor feature estimation and scene correlation algorithms for the ground-based missile defense system.
- Analyzed and resolved complex system performance issues, prototyping solutions and presenting findings to the customer to enhance overall system effectiveness.
- Translated innovative algorithms from research prototypes into operational tactical software, optimizing for system requirements and runtime constraints.
- Worked closely with multidisciplinary teams to ensure algorithm interoperability and that systems met comprehensive customer performance requirements.
- Mentored new team members in industry and company best practices, providing technical guidance and conducting peer reviews to promote excellence.
- Served as ScrumMaster within Agile development teams, facilitating efficient workflows and fostering collaborative environments.

National Instruments Summer 2014
Test Engineer Intern

- Updated existing test sequences for PXIe Chassis models, reducing false failures caused by operator error and improving test reliability.
- Localized PXIe Chassis line tests for operators in Penang, Malaysia, enhancing global operational efficiency.

Education

- **Texas A&M University** 2015
  Bachelor of Science in Electrical Engineering
  GPA: 3.964

Skills & Abilities

- **Programming Languages**: C/C++, MATLAB, LabVIEW, Python
- **Technologies**: Kubernetes
- **Skills**: Data Analysis

Certifications

- **Active US Top Secret Clearance T5**

Awards

- **Eta Kappa Nu, IEEE Honor Society** 2014 – Present
- **Eagle Scout** 2009