

Contact

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Top Skills

Project Management
Project Planning
Trade Studies

Certifications

MIL-STD-1553 Training
CompTIA Security+
OMG-Certified Systems Modeling
Professional: Model User (OCSMP)
Private Aircraft Pilot
Project Management Professional
(PMP)

Honors-Awards

Eagle Scout

Joshua Jablonowski

Technical Lead (Software/Systems Engineer)
Huntsville, Alabama, United States

Summary

Graduate with a Bachelor's in Electrical Engineering working near Redstone Arsenal in Huntsville, AL as a Technical Lead PeopleTec Inc, working on MOSA implementations of Army platforms and devices. Currently working towards a Master's Degree in Computer Science at Georgia Tech.

Experience

PeopleTec, Inc.

Technical Lead

June 2023 - Present (2 years 2 months)

Huntsville-Decatur-Albertville, Alabama, United States

Led and developed team to create SDR prototypes and automated test capabilities for integration of modular communications capabilities onto Aviation platforms.

Performed technical analysis, trade studies, and reports to inform requirements and system architecture of Army Aviation communications and datalinks using model-based systems engineering (MBSE) and metrics-driven decision making.

Coordinated across industry, tri-service, and intra-company working groups and communities to share and collaborate information to ensure accuracy of system requirements, design, and understanding.

Georgia Tech Research Institute

System Engineer

August 2022 - June 2023 (11 months)

Huntsville, Alabama, United States

Acted as technical lead assisting with software development and program management in support of DO-178C and FACE-aligned flight certified software.

Development of Georgia Tech Professional Education Course: MOSA Standards and Implementation (DEF 4548P). Teaching Open Standards such as VICTORY, MORA, and SCA. (See Projects)

Support of multiple IRAD projects in the area of Open Systems Architecture.

Prime Technical Services Inc.

System Engineer

February 2022 - September 2022 (8 months)

Huntsville, Alabama, United States

Supported Model-Based Systems Engineering (MBSE) efforts at Georgia Tech Research Institute (GTRI).

Developed artifacts and CI/CD pipelines for DO-178C flight certification software.

Assisted with modeling of Army Aviation systems using FAF elements and FACE data modeling.

Trideum Corporation

2 years 10 months

Software Engineer

October 2019 - February 2022 (2 years 5 months)

Huntsville, Alabama Area

Worked onsite at Redstone Test Center (RTC) to develop a cyber testing capability in the IP space, radio spectrum, and serial data buses.

Using software defined radio, created software to automatically characterise a given spectrum and simulate multiple DoD-specific data links for HWIL testing and network simulations.

Supported multiple cyber test events involving missile defense, drones, and Army aviation systems

Performed network administration tasks and helped to create a VDI development environment at Trideum with Agile tools such as the Atlassian suite and Jenkins CI integrations

Created modeling and simulation and HWIL solutions for Aircraft Survivability Equipment (ASE) systems over distributed networks using MIL-STD-1553 equipment

Assisted in development of RTC's PNT (Position Navigation & Timing) simulation capability using Spirent GNSS systems

Secret Clearance Required

Junior Software Engineer
May 2019 - October 2019 (6 months)
Huntsville, AL

Auburn University
Undergraduate Research Assistant
August 2018 - May 2019 (10 months)
Auburn, Alabama Area

Research in cyber security and penetration testing of government networks and communication protocols

Scientific Research Corporation
Intern
June 2018 - August 2018 (3 months)
Huntsville, Alabama Area

Contracted through SRC to work with the Redstone Test Center (RTC) located on the Redstone Arsenal in Huntsville, Alabama to work on projects concerning the cyber testing and security of key software.

Secret Clearance Required

Revere Control Systems
Engineering Co-Op
May 2016 - December 2017 (1 year 8 months)
Birmingham, Alabama

To learn all aspects of the engineering and manufacturing process and develop appropriate skills in preparation for assuming the project engineer role, including:

Developing skills in automation engineering to include design, programming, wireless systems, and project commissioning

- # Travel for various startups and field service jobs throughout the Southeast in municipalities and industrial applications
- # Understanding safety procedures
- # Following procedures to install many types of switches, conduits, controls and other electrical parts
- # Connecting wires or cables to circuit breakers, transformers and other components
- # Understanding the sales processes in water/waste water industry, OEM, and industrial systems
- # Understanding marketing, estimating, CAD, documentation, purchasing, receiving, field calibration, and applicable codes and standards
- # Maintaining project related data
- # Reviewing project drawings for accuracy and completeness

Legacy Elementary School

After School Care Worker

January 2013 - December 2015 (3 years)

Harvest, AL

Responsibilities as an after school care worker included:

- #Ensuring the safety and care for students in grades K-5.
- #Creating activities for students to take part in
- #Interacting with parents/guardians to better understand each child's needs

Education

Auburn University

Bachelor of Engineering (B.Eng.), Electrical Engineering · (2014 - 2019)