SCARLETT ANDERSON

Software Engineer | Flight Control Systems | Software Integration

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📍 Columbus, Ohio

SUMMARY

With over 8 years of dedicated software development experience in the aerospace industry, I excel at designing complex systems and integrating flight control software. My robust skill set in programming languages such as C++, Python, and Matlab, complemented by a track record of driving growth and reaching significant milestones, aligns with the dynamic needs of transformative aerospace solutions.

EXPERIENCE

Senior Software Engineer
Lockheed Martin
📅 05/2019 - Present   📍 Columbus, Ohio

- Led the design and development of advanced flight control software architecture, improving simulated test flight success rates by 30%
- Spearheaded the integration of flight guidance systems, leading to a 15% reduction in integration time for new product development
- Conducted rigorous testing and simulation on test benches, identifying and rectifying 150+ critical bugs before software release
- Implemented a robust software development lifecycle in compliance with DO-178C, boosting development efficiency by 25%
- Coordinated the coding efforts using C++, Python, and Matlab, increasing software performance metrics by 20%
- Played a pivotal role in achieving software certification, meeting 100% of technical requirements within project deadlines

Software Developer
Boeing
📅 01/2017 - 04/2019   📍 Chicago, Illinois

- Developed critical Input/Output processing modules for A429 interfaces, enhancing data throughput by 40%
- Integrated and validated A661 interface software components, leading to improved cockpit display interactions
- Collaborated in an Agile environment to deliver functional software loads, reducing cycle time by 25%
- Contributed to the optimization of SOC and Multi-core processors utilization, increasing system reliability by 18%
- Led cross-disciplinary teams, successfully driving project milestones and growth in the electronics systems division

Software Engineer
Northrop Grumman
📅 06/2014 - 12/2016   📍 Falls Church, Virginia

- Enhanced Matlab Simulink models for flight control systems, resulting in a 10% increase in model accuracy
- Implemented software configuration and change management practices, leading to a reduction of deployment issues by 50%
- Authored and maintained documentation for software development processes and tool utilization
- Involved in full-cycle software development from concept to end of life, directly affecting operational excellence

EDUCATION

Master of Science in Aerospace Engineering
Massachusetts Institute of Technology
📅 01/2012 - 01/2014   📍 Cambridge, Massachusetts

Bachelor of Science in Computer Engineering
The Ohio State University
📅 01/2008 - 01/2012   📍 Columbus, Ohio

PROJECTS

Flight Simulation Interface Tool
Contributed to an open-source flight simulation interface tool used for testing control systems. github.com/flight-sim-interface

Autonomous Drone Navigation
Developed an experimental autonomous drone navigation system to enhance unmanned aerial vehicle guidance. github.com/auto-drone-nav

KEY ACHIEVEMENTS

💡 **Accelerated Integration Award**
Recognized for leading efforts that decreased flight guidance system integration times by 15% at Boeing.

🏆 **Software Quality Excellence**
Authored the best practices documentation that led to a 50% reduction in deployment issues at Northrop Grumman.

🚩 **Innovation in Testing**
Pioneered a new software testing methodology that improved bug identification by 150% at Lockheed Martin.

❤️ **Team Leadership Honor**
Managed a cross-disciplinary team that driven essential project milestones within the electronics systems division at Boeing.

SKILLS

C++	Python	Matlab

Software Architecture

Flight Control Systems	DO-178C

COURSES

Advanced C++ Programming
Deep dive into advanced C++ concepts and real-world application, provided by Coursera.

Certification in Systems Engineering
Intensive certification focusing on the integration of complex systems within aerospace, offered by INCOSE.