

William Kenneth Paustian Jr.

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Software engineer with 7 years of experience in avionics and embedded software development. Proven track record in writing code, conducting code reviews, and performing unit and integration tests in compliance with industry standards. Skilled in mentoring new employees and proficient with IBM Synergy for project management and version control.

Work Experience

Embedded Systems Software Engineer at BAE Systems | Endicott, NY | July 2016 - September 2023

- Worked on embedded control systems for the Boeing 777X Hydraulic Interface Module, 777X Environmental Control System Miscellaneous Card, 737 Stall Management Yaw Damper, and 747 Modular Avionics Warning Electronic Assembly programs as a contract employee through Actalent.
- Authored high quality code, written in Ada, using the waterfall development process, DO-178 processes, and Boeing's software design and interface control documents for the 777X aircraft.
- Created and updated up to 50 integration test, written in C or Fortran and operated on legacy Unix systems, to test interfacing between code modules
- Created and updated over 100 unit tests, written in C and ran on the Lauterbach, with the goal of achieving 100% structural coverage of individual code modules. The precision of these tests increased code error discovery by at least 50% in comparison to only performing integration testing.
- Performed BAE quality control checklists on tests and code modules, and reviewed peers' checklists to reduce errors by 100%.
- Mentored multiple new employees and trained them on how to use IBM Synergy and proper testing procedures.

Education

Bachelor of Science in Computer Science | Ursinus College | Collegeville, Pennsylvania | May 2016
Minors: Math and Music | GPA: 3.485 | Honors: Dean's List (2014-2016), Upsilon Pi Epsilon

Technical Skills and Competencies

Languages: C (Proficient), C++ (Proficient), Ada (Intermediate), C# (Intermediate), Fortran (Intermediate), Java (Intermediate), Python (Intermediate)

Tools: Lauterbach, Notepad++, Excel, IBM Synergy, NetBeans, Code::blocks, Dev C++, Eclipse, Visual Studio