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SOLN TBD

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Aaron Bergamo

Professional Engineer (Electrical), State of WA (Lic # 48325)

Dynamic, results-oriented professional with over 13 years' experience in the development and integration of complex safety critical and avionics systems.

Education

BSEE, San Diego State University, San Diego, CA; Graduation: Dec 2005

Certificate, USC Marshall School of Business, Management Development Program; 2016

Special Skills

Large Scale System Integration: Successfully designed, developed, and integrated complex avionics systems into large OEM aircraft. Led all phases of the product development life cycle; from customer requirements, through development, certification, and in-service/sustaining support.

System Design/Architect: Developed and documented hardware and software architectures that met customer specifications for complex avionics. Established high level system specifications and designs and derived requirements into lower hardware and software specifications.

Communication Networks: Designed, developed, and integrated systems utilizing Ethernet, TCP/IP, ARINC 429, ARINC 717, ARINC 615/615A, ARINC 664, IEEE 802.3, IEEE 802.11, VOIP, and Cellular technologies.

Software Development: Experience with Linux Operating Systems (embedded and enterprise server). Developed user applications for both embedded avionics and ground systems. Experience with; Java, Python, Embedded Linux for MIPs and ARM processors, Ballard ARINC USB device API, C, Objective-C, HTML, XML, iOS, Android, SOAP, SIP, SSL/TLS, Ruby, Ansible, Linux bash/shell, and QT Framework.

Work Experience

Harris Corporation, July 2017 – Dec 2018 *Sr. System Engineer*

System Engineer: Focused on Voice Over IP system to support Air Traffic Management. Directly contributed to the air to ground function. Led multi discipline team to resolve complex/high priority defects. Led team to resolve major design/architecture issues related to system deployment.

Software Engineer: Worked on software infrastructure team to provision and maintain a ground system. Focused on automating the provision and update of their commercial and proprietary system using Ansible.

Teledyne Controls, Oct 2015 – March 2017 *Director, Network Systems*

Engineering Director: Director of System Engineering for avionics products related to avionics and computer networking. Provided technical oversight for all aspects of engineering. Developed engineering estimates for new programs.

System Design/Architect: Led large multi-discipline engineering teams to development design solutions for complex customer requirements. Produced complex technical proposals and represented engineering discipline for interactions with customers.

Teledyne Controls, April 2013 – Oct 2015 *System Engineer Lead*

Lead Engineer: Led multi-discipline engineering team to develop, produce, and maintain complex avionics equipment. Made technical decisions affecting new and existing products. Acted as technical interface to external customers and internal management for both programmatic and technical activities.

System Design/Architect: Developed design proposals and system architectures of avionics. Investigated and developed system requirements for avionics hardware and software; including Web Services, ARINC 429/717 Communications, IP Networking technologies, and M2M cellular communication.

System Development: Developed and maintained Linux OS and user applications used for design verification and production acceptance testing. Modified Linux drivers to integrate into custom hardware. Created custom software applications and automation test suites using Java and Robot Framework with Python. Performed Network Security analysis on avionics systems per NIST 800-30.

System Integration: Lead engineer for on-site integration activities with large OEM customers. Provided troubleshooting and general support for large OEM laboratories and airplanes. Provided engineering support for in-service issues.

Resource Manager: Managed team of System engineers for both new product development and sustaining. Managed team's daily workflow and represented the systems discipline in larger integration meetings. Developed work statements based on customer requirements and internal processes.

iJet Onboard, Nov2012 – March 2013 *Software Development Engineer in Test (SDET)*

Software Configuration Management, Build, and Release: Responsible for software configuration management for company products and test environments. Responsible for automation and monitoring of software build and deployment.

Software Development and Test: Developed production and test simulation software for both ground-based and in-flight systems. Developed and executed test procedures to verify system functionality. Provided technical support for complex development and test environment problems.

General Avionics Support: Supported Systems engineering team with design decisions and requirement development for ground-based and in-flight avionics products.

The Boeing Company, Jan 2006 – Nov 2012 *Design and Analysis Engineer - Equipment Manager*

Avionics Development: Worked on avionics system from product development to successfully completing the FAA Flight Test Program and supporting initial in-service issues.

System Engineering: Performed Trade Studies and requirements management utilizing DOORS. Developed and implemented detailed test procedures. Developed technical specifications. Provided significant input to FAA System Certification Plan, and FAA System Certification Summary.

Onsite Support: Provided engineering support and direction for all aspects of build (factory) and delivery (flight line) for avionics equipment. Primary engineer for airplane flight test activities for avionics system, included development of (FAA) approved system test procedures and direct interaction with Boeing Flight Test and FAA personnel.

Supplier Management: Performed project management activities for avionics equipment development. Acted as interface between multiple suppliers and the Product Development team.

Software Development: Developed applications for lab testing and mobile devices. Developed Objective-C static library (iPad) for interfacing with avionics equipment for demonstration of system capability.

References on Request