

JOEL ESTRADA

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SUMMARY

Experienced Aerospace Systems Engineer who is seeking career and personal growth. Earned a reputation for being detail-oriented, collaborative, and adaptable by supervisors and peers. Performs well in independent and team environments. Adept at problem solving, system requirements definition, verification testing, quality analysis testing, troubleshooting, project planning, and program management.

WORK EXPERIENCE

Blue Origin through Protingent; Kent, WA

August 2021 - Present

Aerospace Systems Engineer II

- Collaborated with teammates to develop New Glenn System Safety Hazard Sheets.
- Conducted requirements audit for traceability between New Glenn requirements and standards.

Spectralux Avionics; Redmond, WA

July 2017 – December 2020

Avionics Systems Engineer

- Defined, decomposed, and allocated high and low level requirements managed in the IBM Rational Dynamic Object Oriented Requirements System (DOORS) software tool which enabled component and system level integration testing.
- Collaborated with teammates to streamline the requirements review process by replacing lengthy steps with more efficient alternatives saving the company over 200 hours of time annually.
- Created the Qualification Test Procedures and Test Report used for the environmental certification of the Envoy Data Link (Envoy).
- Oversaw Qualification Testing at a third party laboratory, providing support for any troubleshooting and data analysis. Collected test results for data archiving and inclusion in the Qualification Test Report.
- Conducted ah-hoc verification testing during development of system requirements utilizing a software simulation of the Envoy to reduce program risk.
- Worked with a small engineering team to successfully develop the Envoy System Safety Analysis.

The Boeing Company; Everett, WA

July 2011 – March 2017

Electronic and Electrical Systems Design Engineer

- Program manager of all aspects of the Ground Maneuver Camera System 2, leading the program through critical gates and major milestones.
- Saved the company over \$500000 on Flight Testing by coordinating alternative verification and validation test procedures with the camera supplier.
- Spearheaded a trade study to save over 17% of the time to test the system during production by rearranging and consolidating test steps.
- Participated in numerous preliminary and critical design review meetings.
- Successfully supported the Avionics Displays obsolescence program for the 737 Next Generation and 777 airplanes which enabled the continued manufacture of these production lines.
- Conducted lab and airplane flight testing to verify systems meet operational and functional requirements.

TECHNICAL SKILLS

Languages and Tools: Visual Studio Code, HTML5, CSS3, JavaScript, Object-Oriented Design, Bootstrap, Responsive Web Design, jQuery, Git, REST APIs, Node.js, Express.js, MySQL, MongoDB, Progressive Web Apps, Reactjs, Python, Flask

EDUCATION

Certificate of Completion in Full Stack Web Development

University of Washington Professional & Continuing Education – Seattle Campus

- A 24 week-intensive program focused on gaining technical programming skills in HTML5, CSS3, JavaScript, jQuery, Bootstrap, Firebase, Node.js, MySQL, Express.js, Handlebars.js & Reactjs

Bachelor of Science in Electrical Engineering

University of Washington – Seattle Campus

- Majored in Electrical Engineering with a focus on Power Electronics and Electric Devices, Sustainable Electric Energy, and Large-Scale Power Systems