

# JOEL ESTRADA

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## SUMMARY

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Full Stack Software Engineer from the University of Washington Coding Boot Camp looking to leverage an extensive background in the aerospace industry to break into the world of Software Development. Experienced Avionics Systems Engineer who has earned a reputation for being detail-oriented, hard-working, and reliable. Performs well in independent and team environments. Professional experience includes system requirements definition, verification testing, qualification testing, failure analysis, project planning, program management, and supplier coordination.

## TECHNICAL SKILLS

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- Visual Studio Code, HTML, CSS, Bootstrap, JavaScript, jQuery, Git, GitHub, APIs, AJAX, Node.js, Express, Handlebars, MySQL, Sequelize, MongoDB, Mongoosejs, Progressive Web Apps, React
- IBM Requirements Management DOORS, Zoom Video Conferencing, Microsoft Office Suite – Word, Excel, PowerPoint, Outlook, Teams

## WORK EXPERIENCE

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### Spectralux Avionics; Redmond, WA

July 2017 – December 2020

#### *Avionics Systems Engineer*

- Created the Qualification Test Procedures used for the environmental certification of the Envoy Data Link (Envoy). The procedures were based on the Radio Technical Commission for Aeronautics (RTCA) DO-160, the RTCA DO-281, and the SAE International Aerospace Standard AS8034 documents. The procedures were used for in-house testing and for testing at outside laboratories. Collaborated with teammates to create the Qualification Test Report based on Qualification Testing results.
- Defined, validated, decomposed, and allocated numerous Envoy system requirements that are managed in the IBM Rational Dynamic Object Oriented Requirements System (DOORS) software tool which enabled component and system level integration testing.

### The Boeing Company; Everett, WA

July 2011 – March 2017

#### *Electronic and Electrical Systems Design Engineer*

- Responsible for the program management of all aspects of the Ground Maneuver Camera System 2 (GMCS2) obsolescence program for the 777 airplanes. Worked with the supplier on program scheduling, risk management, and interfacing with high level management. Provided technical oversight for requirements development and design verification at the component, system, and airplane level. Utilized lab and airplane factory resources to test and verify the system's design meets operational and functional requirements.
- Assisted in the design requirements development of the 737 MAX Flight Deck Entry Video Surveillance System (FDEVSS). Tested and verified the FDEVSS's design meets requirements at the 737 MAX Displays test bench.

## PROJECTS

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### Budget Tracker Progressive Web App – Links: [GitHub](#), [Deployment](#)

- Developed a PWA for users to track their budget regardless of connection to the network utilizing IndexedDB API, Service Worker API, and Cache API.

### Bear Share – Links: [GitHub](#), [Deployment](#)

- Collaborated with peers to create an app for users to buy, sell, and search teddy bears storing information on a MySQL database.

### Employee Directory – Links: [GitHub](#), [Deployment](#)

- Developed a React App that displays a list of random people generated from the Random User API.

## EDUCATION

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### Certificate of Completion in Full Stack Web Development

#### *University of Washington Professional & Continuing Education – Seattle Campus*

- Coding Boot Camp

### 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