

# ILKA SANTIAGO

Irvine, CA

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

Software Engineer with a background as a system engineer. I'm detailed oriented and an engaged team player. I'm driven by excellence and a sense of accomplishment.

## TECHNICAL SKILLS

- Javascript
- HTML
- CSS
- Python
- Node
- Express
- EJS
- React
- Postgres (SQL)
- Sequelize (ORM)
- MongoDB (NoSQL)
- Mongoose (ODM)
- Git / GitHub
- D3 Charts
- RESTful Routing

## EDUCATION

**Software Engineering Immersive Program**, General Assembly, Remote (03/2021)  
12-week, 450+ hour curriculum focused on full stack application.

**Master of Science, ITA** - Mechanical & Aeronautical Engineering, Brazil

**Bachelor of Science, UFPE** - Electrical Engineer, Brazil

## RELEVANT PROJECTS

### *Mancala*: **HTML, CSS, Javascript**

- A browser-based game built entirely in the front-end. It is a 1-2 player game. Features include display of the player turn, keeps track of the game score, and which player won the game. Javascript was used for DOM manipulation.

### *Stock Market Price*: **Postgres, Sequelize, Node, Express, Fetch**

- Full-stack project where the user can build his/her watchlist and based on that get the stock market price, and some company information. Those data were obtained from Alpha Vantage API.
- It included sign up/log in functionality with a hashed password and an authorization flow. The app has a complete RESTful routes. Sequelize was used to create a database table structure and interact with the relationally-stored data.

## PROFESSIONAL EXPERIENCE

### **BOEING, Everett, WA, US**

Mechanical System Design & Analysis Engineer (10/2018 - 06/2020)

- Developed and executed lab tests procedures for CACTCS (Cabin Air-Conditioning and Temperature Control System).
- Troubleshoot software issues from lab and aircraft flight tests.
- Coordinated with the system supplier team to address software issues found in the lab, ground, and flight test.
- Collaborated to the system development assurance(ARP 4754) activity.

### **AEROTEC LCC, Seattle, WA, USA**

Environmental Control System (ECS) Engineer (05/2016 - 09/2018)

- Created ground and flight test plans and test reports to support system development / Certification.
- Drafted System Description Documents for Pneumatic, ECS and Ice Protection Systems.
- Reviewed and suggested improvements on the fault isolation procedures for maintenance messages from ATA 21 and 36.

### **BOMBARDIER AEROSPACE, Dorval, QC, Canada**

Environmental Control System Integrator Engineer (04/2009 - 02/2016)

- Coordinated qualification and certification activities of ECS and Wing Anti Ice System (WAIS) for CL350.
- Coordinated with the supplier design changes on parts as Wing Anti-Ice Temperature Sensor for CL300 and Bleed Valve for CL605.
- Coordinated the inspection time extension for Ozone Converter (CL300) to improve customer satisfaction.

### **EMBRAER | São José dos Campos, SP, Brazil**

Air Management Systems (AMS) Product Development (01/2004 - 03/2009)

- Coordinated software changes with the supplier to address issues found in the lab, production and fleet.
- Supported the integration of the new AMS software by creating the test plan and test report, and performing the test in the RIG or Iron Bird.
- Supported certification group by reviewing the PSAC (Plan for Software Aspect of Certification), SCI (Software Configuration Index) and SAS (Software Accomplishment Summary) for the new Air Management System Controller software release.