

Alex Gomez

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Skills

Programming: Python, C/C++, C#, JavaScript, Flutter/Dart, Node.JS, React.JS, Express.JS, Bash/UNIX, HTML/CSS, GIT

Systems Engineering: CAMEO, Simulink, DOORS

Tools: Visual Studio, Visual Studio Code, Mongo Compass, Docker Desktop, Azure DevOps, Android Studio, Postman

Language: English, Spanish (Fluent)

Experience

Software Test Engineer, Bell Textron – Hurst, TX

June 2024 – Present

- Led development of high level test strategies, and High Level Testing Framework for avionics software with cross-functional collaboration with the System Integration Lab.
- Designed and implemented, C# libraries for document creation, requirements tracing for test cases, and test validation reducing manual input and improving efficiency.
- Wrote test scripts in C# to verify high level requirements for avionics software in accordance with DO-178C.

Product Cybersecurity Engineer, Bell Textron – Hurst, TX

July 2023 – June 2024

- Executed high level decomposition and validation of cybersecurity requirements into multiple systems/subsystems/components to ensure robust cybersecurity throughout the Bell Future Long Range Assault Aircraft (FLRAA) program.
- Presented directly to the customer in response to Request for Action (RFA) regarding decomposition of data sanitization cyber service.
- Led the development and modeling of digital identity and data sanitization cyber service in SysML, translating stakeholder requirements into precise, actionable technical specifications that aligned with program objectives and NIST standards.

Aerospace Engineer Intern, Textron Systems - Cockeysville, MD

May 2022 – Aug 2022

- Undertook autopilot development and integration for unmanned air systems.
- Developed tools for flight test analysis using MATLAB, JavaScript, HTML, and Excel.
- Reduced subscale testing workflow by 25%, resulting in increased workflow & hours saved per flight test.

Propulsion Engineering Intern, Textron Aviation – Wichita, KS

May 2021 – Aug 2021

- Researched and identified a root cause for the Fuel System on the Longitude line of aircraft utilizing a flight database.
- Examined and adjusted tolerances for holes in the ribs of the fuel tank in CATIA V6 to account for flaws in production & revising drawings for an upcoming XLS+ block point change.
- Met weekly with the Propulsion Sustainment team to discuss project updates and goals for the group.

Projects

RestaurantRandomizer

github.com/gomeii/RestaurantRandomizer

- Cross platform application created using Flutter, that integrates the GoogleMaps API to render nearby restaurants to a given location
- Allows user to generate a randomized selection with a selection wheel animation

MoviePicker

github.com/gomeii/MoviePicker

- Full Stack web application utilizing React, Express, MongoDB, and Docker for exploring movies and tv-show data
- Implemented search and save functionality for movies and TV shows, leveraging the OMDb API for search queries and MongoDB for managing user profiles and CRUD operations.

Education

Texas A&M University – BS in Aerospace Engineering, Minor in Computer Science

May 2023

GPA: 3.18
