



JOSE TRONCOSO

SEE THIS ON
MY WEBSITE



CONTACT

- ☎ (307) 720 - 8823
- ✉ JoseTroncoso@live.com
- in <http://linkedin.com/in/jose-troncoso-861a3a170>
- 🌐 <https://josetiawaty.com/resume/>

SKILLS

- Technical Delivery
 - Stakeholder demonstrations
 - Technical presentations
 - Rapid prototyping
 - Systems Integration
- Engineering Tools
 - Claude / Claude Code
 - ChatGPT / Codex
 - IBM DOORS
 - Dassault Cameo
 - Solidworks
 - AutoCAD
 - 3D Printing

LANGUAGES

- English (Fluent)
- Spanish (Fluent)



WORK EXPERIENCE

Senior Systems Engineer / Architect

NOV 2022 - PRESENT

Lockheed Martin

- Develop enterprise-wide architecture solutions and diagrams.
- Delivered and presented architecture walkthroughs, educational presentations, and demos to stakeholders.
- Led model-based systems engineering (MBSE) efforts for sensor program, coordinating architecture and requirements with multidisciplinary engineering teams.
- Created SysML and UAF diagrams in Cameo System Modeler to capture structure, interfaces, and behavior of systems and the LM enterprise.
- Developed functional requirements in IBM DOORS, imported requirements into Cameo using DataHub, and shared models through Teamwork Cloud Collaborator.

Systems Engineer (Contractor)

Jan 2022 - Jul 2022

Chenega Analytical Business Solutions

- Analyzed and implemented training systems and subsystems; evaluated equipment adaptability and recommended improvements to training equipment and techniques.

Systems and Test Engineer

Jul 2019 - Jun 2021

National Aerospace Solutions (Arnold AFB)

- Extensive direct interfacing with customers to ensure jet engine testing facility capabilities met requirements.
- Integrated customer and military hardware.
- Conducted developmental and mission testing, analyzing real-time data.
- Coordinated with customers, engineers, and DoD personnel to resolve assembly and testing issues.



EDUCATION

University of Tennessee - Chattanooga

Graduated 2019

Bachelors of Science in Mechanical Engineering

- Vice President of Baja SAE club
 - Lead team of 15 in international design competition.
 - Frequently presented to boards of industry engineers, collegiate professors, and colleagues.



TECHNICAL PROJECTS

Flyover - Aircraft Data and Display Platform

Using: ChatGPT, Codex, Python, Flask, REST APIs, ADS-B, HTML/CSS, ESP32, ePaper

- Built a Python pipeline that ingests aircraft data from external APIs, normalizes aircraft and airline metadata, filters nearby traffic, and renders aircraft displays on eInk display.
- Developed Flask controls for Flyover settings (polling location / frequency, display modes, etc.) connecting data services with a configurable display application served on web.

Desk Pad - Touchscreen Control and Integration Platform

Using: ChatGPT, Codex, Raspberry Pi, Linux, Python, Flask, JavaScript, HTML/CSS, REST APIs

- Deployed touchscreen software enabling centralized control of:
 - Flyover controls
 - LG Monitor input switching
 - Smart lights in home
- Designed and packaged into a physical control device with buttons and a rotary encoder