

# Jonathan Afzali

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## TECHNICAL SKILLS

- Secret Security Clearance (Active)
- SolidWorks (Certified SW Associate)
- MatLab & Simulink (C/C++)
- AutoCAD
- Mechanical Design & Analysis
- Manufacturing (Mill/Lathe)
- Robotic Planning (Arduino)
- ANSYS (Design Simulation)
- FE Certified (EIT)
- OSHA-10 Certified
- Siemens NX
- Testing & Debugging

## EXPERIENCE

### **Engineering Consultant / Orbital Operations**

*December 2025 - Present*

- Utilized Siemens NX and Onshape for the calculation, design, and drafting of various stages of LEO Satellite development.
- Developed Test Documentation and Procedures foundational for governmental and civilian testing and integration.
- Supported Stakeholder discussions and negotiations, ensuring governmental compliance and concerns were met.

### **Mechanical Design Engineer / SGB Enterprises, Inc.**

*November 2019 – July 2020 // June 2025 - November 2025*

- Utilized SolidWorks for the calculation and design of various pilot ground training aerospace systems, collaborating with various mechanical, electrical and software engineers, manufacturers, and clients. Subsystems designs include meeting vigorous aerospace standards in the electrical, mechanical, and PCB of each unit, guided from design to full production and sustainment.
- Conducted BOM and design checks to ensure product strength, manufacturability, and feasibility, often consulting with PCB, electrical and software design teams to optimize outlined specifications.
- Authored company training and standards, as well as document packages for clients to support full-scale manufacturing needs, including drafted assembly, component drawings, and manufacturing specifications.

### **OTH MLS In-Service Engineering Agent (ISEA) / Naval Sea Systems Command (NAVSEA) October 2022 – October 2025**

- Served as the Foreign Military Sales (FMS) lead while supporting the installation of Over-The-Horizon Missile Launching System (OTH MLS) into the integrated combat system architecture of our contracted overseas allies.
- Supported the fleet by providing technical expertise, resolving complex shipboard integrated issues and developing the foundation for engineering support standards, significantly reducing system downtime.
- Served as the Test and Evaluation (T&E) lead, coordinating with DoD and fleet personnel for both simulated and onboard active system testing, developing and executing requirements with given interfaces, addressing system deltas for events with distance support, laboratory testing, and debugging. Testing includes RF emission and cross-section, integration, and certification.
- Led regular international and domestic discussions to best implement installations and long term support, along with partner branches of the DOD, ensuring effective integration, life cycle, and system engineering foundations.
- Bolstered internal processes, providing design drawing redlines, authoring standard operational procedures and training qualification standards, and designing active directories to optimize team efficiency and infrastructure.

### **Test and Project Engineer / Naval Sea Systems Command (NAVSEA)**

*July 2020 – September 2022*

- Executed various multimillion dollar Naval projects as the Combat System Lead Engineer.
- Planned and led the at-sea test and evaluation of prototypes, including airborne mine countermeasure systems and autonomous seaborne mine hunting systems, conducting their launch, execution, and recovery.
- Collaborated with D.C. project team leads, ships and their crew, system engineering teams, and technicians in the planning, coordination, design and troubleshooting of the mission package at various stages of the testing cycle.
- Developed dynamic understanding of each system and process resulting in the successful implementation of the program from testing into full scale production, ensuring requirements are met for a finished integrated product.

### **Mechanical Engineer / Falcon Enclosure Consulting**

*February 2019 – August 2019*

- Worked with multi-disciplinary teams on enclosure systems involving water/air barriers and product compatibility.
- Guided practical field application by using AutoCad for designing and drafting of construction drawings.
- Served as onsite project consultant, leading assessments for product developers/representatives, architects, and key stakeholders.

### **Torque Vectoring Subteam Lead / Highlander Racing FSAE, UCR**

*July 2017 – February 2019*

### **Intake Team Member / Highlander Racing FSAE, UCR**

*September 2015 – February 2019*

## EDUCATION

**Bachelor of Science in Mechanical Engineering / Concentration in Design and Manufacturing**  
University of California, Riverside (UCR)