

Jonathan Afzali

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TECHNICAL SKILLS

- SolidWorks (Certified SW Associate)
- MatLab & Simulink (C/C++)
- AutoCAD
- ANSYS
- Mechanical Design & Analysis
- Machine Shop (Mill/Lathe)
- Robotic Planning (Arduino)
- PDM
- Secret Security Clearance
- FE Certified (EIT)
- OSHA-10 Cert
- Testing & Debugging

EXPERIENCE

OTH MLS In-Service Engineering Agent (ISEA) | Naval Sea Systems Command (NAVSEA) *October 2022 – Present*

- 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 systems for our contracted overseas allies.
- Supported the fleet by providing technical expertise and experience, resolving complex shipboard integrated issues and developing the foundation for engineering operating procedures.
- Led regular international and onsite discussions to best support the installation and long term support, in conjunction with several other branches of the DOD, ensuring smooth installation and long term operation.
- Bolstered internal processes, authoring standard operational procedures and training qualification standards.
- Traveled regularly both domestic and abroad for onboard technical assistance to diagnose and fix each concern that could not be solved with distance support and laboratory testing and debugging.

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, and system engineering teams, and technicians in the planning, coordination, 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.

Mechanical Design Engineer | SGB Enterprises, Inc. *November 2019 – July 2020*

- 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.
- 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 document packages for clients to support full-scale manufacturing needs, including drafted assembly, component drawings, and manufacturing specifications.

Mechanical Engineer | Falcon Enclosure Consulting *February 2019 – August 2019*

- Worked with multi-disciplinary teams on design, specification, and instruction for enclosure systems involving water and air barriers, product compatibility, thermal fluctuations and specific system needs.
- Guided practical field application by using AutoCad for designing and drafting of construction drawings.
- Served as onsite project consultant by leading assessments in partnership with product developers/representatives, architects, project owners and other onsite consultants and engineers.

Torque Vectoring Subteam Lead | Formula Electric FSAE, UCR *July 2017 – February 2019*

Intake Team Member | Formula Internal Combustion Engine FSAE, UCR *September 2015 – February 2019*

EDUCATION

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