

## AEROSPACE ENGINEER

## QUALITY ASSURANCE | PROJECT MANAGEMENT | TEAMWORK

Engineering professional with 2 years of experience in engineering. Analytical professional with sound knowledge of engineering principles, technologies, and methodologies and adept at resolving complex issues and improving technical processes. Skilled at organizing project resources to accomplish goals within timelines. Proficient in MATLAB, Python, LaTeX, Excel, Minitab, BuildIT Projector Software, SolidWorks, and AutoCAD.

**Engineering Principles ♦ Problem Solving ♦ Critical Thinking ♦ Cross-functional Collaboration ♦ Leadership**  
**♦ Process Efficiency ♦ Adaptability ♦ Effective Communication ♦ Project Management**

## EDUCATION

**Bachelor of Science in Aerospace Engineering with Minor in Business**

University of California, San Diego (2020)

## PROJECTS

**Aircraft Design Project: University of California, San Diego (2020).** Created short range and high-capacity aircraft design that reduced air traffic, airport ground congestion, and CO2 emissions. Utilized MATLAB and Python coding programs to create system that outputs required parameters with given design inputs.

**Aerospace Laboratory Research: University of California, San Diego (2019).** Analyzed pressure distribution of air foils in wind tunnels at varying angles of attack. Examined fundamental principles of angular momentum, open and closed loop controllers, and coupling within gyroscopic reaction wheel systems. Characterized state-space model, state-feedback control, and closed loop position control of two-degree of freedom systems, such as helicopters and spacecrafts.

## PROFESSIONAL/VOLUNTEER EXPERIENCE

**DCS Corporation, Ridgecrest, CA**

**Test Data Systems Engineer**

**2024**

- Coordinate customer requirements for flight data support as well as aircraft and weapon telemetry displays
- Author requirements documents for use in test executability reviews
- Assist in the troubleshooting of aircraft instrumentation problems
- Develop and maintain data analysis and video playback procedures in support of customer analysis efforts
- Perform acceptance testing of new data processing and analysis tools
- Flight Data Processing and Distribution
- Supply users with documentation of 1553 and fiber channel parameter databases
- Coordinate the buildup of new databases and upgrades of existing databases

**Parker-Meggitt, San Diego, CA**

**MANUFACTURING ENGINEER I**

**2022 - 2023**

- Engineering lead to F-119 OEM program and F-135 Aftermarket program
- Provided engineering support for process improvements, cost reductions, troubleshooting, and modifying equipment
- Collaborated with production and engineering to resolve a scrap inducing nonconformance existing since induction of the F-119 program
- Collaborated in cross-functional teams to improve internal kitting processes across multiple programs
- Investigated common nonconformances using RCCA process and created work instruction updates to resolve issues
- Led program specific configuration control board meetings to update and implement work instruction, drawing, and design updates

**Belcan, San Diego, CA**

**2022**

**ENGINEERING ADMINISTRATOR, MEGGITT**

- Managed and evaluated parts submitted to the Material Review Board (MRB) using RCCA process
- Collaborated with engineering technicians and manufacturing engineers to investigate nonconforming parts and provide dispositions accordingly
- Developed appropriate work instructions to implement solutions to provided dispositions
- Provided daily breakdown on all dispositions done within the division to all engineers within the program
- Trained engineering technicians on proper MRB procedures when investigating and dispositioning parts