Renee Hollis

Madison, AL · renee.hollis@example.com · (256) 555-0190 · linkedin.com/in/example-renee-hollis

My Key Qualifications

- Closed **118 requirements with 100% bidirectional traceability** in DOORS for an aircraft mission-equipment modification package, ahead of critical design review.
- Structural and performance analyses in **MATLAB, Python, and ANSYS** supporting design and qualification decisions on military aircraft modifications.
- Ground and flight test support with data reduction, anomaly resolution, and verification against limits; cut post-flight data reduction **from 5 days to 3** with Python automation.
- Technical coordination with manufacturing, quality, suppliers, and program management; closed **16 change requests and nonconformance dispositions** across 2 increments.
- Creo CAD ownership on modification programs, including **26 drawing revisions across 4 shipsets** released before production handoff.
- Root-cause reviews using **fishbone-based methods** to drive corrective actions on fielded hardware discrepancies.

Experience

Aerospace Engineer — **Dynetics**, Huntsville defense and aerospace contractor within Leidos

Apr 2023 – Present · 3 yrs 7 mos

- Built and baselined subsystem requirements and verification crosswalks in DOORS for an aircraft mission-equipment modification package, closing 118 requirements with 100% bidirectional traceability ahead of critical design review.
- Completed structural assessments of equipment rack and bracket installations on a modified aircraft interior, running load cases in ANSYS and checking margins with MATLAB post-processing. Resolved 7 analysis findings before release with no late redesign to the final drawing package.
- Supported a combined ground and flight test event for integrated mission hardware, automating Python scripts for channel cleanup, time alignment, and summary plots against verification limits. Cut post-flight data reduction time from 5 days to 3 days.
- Led technical coordination on manufacturing concessions and fielded hardware discrepancies, closing 16 change requests and nonconformance dispositions across 2 program increments using fishbone-based root-cause reviews with quality and production teams.

Mechanical Design Engineer — **Sierra Nevada Corporation**, aerospace and national security contractor for aircraft and mission systems

Nov 2021 – Mar 2023 · 1 yr 4 mos

- Released installation drawings and interface details for aircraft mission equipment packages, completing 26 drawing revisions across 4 shipsets before production release by coordinating interface dimensions with manufacturing and incorporating fit-check redlines.
- Supported environmental and functional qualification testing of installed hardware, writing 12 test procedures and reports and verifying measured responses against requirement limits.
- Developed MATLAB worksheets for tolerance and load-tracking calculations that cut recurring analysis preparation time by 6 hours per design iteration.
- Prepared engineering reports, interface control documents, and change documentation supporting aircraft modification programs.

Education

- **Embry-Riddle Aeronautical University** — Bachelor of Science in Aerospace Engineering · 2017 – 2021

Skills

- **Analysis Tools:** MATLAB, Python, ANSYS
- **CAD & Requirements:** Creo, DOORS
- **Engineering Methods:** Requirements Management, Verification Planning, Structural Analysis, Flight Test Support, Root-Cause Analysis