

Lauren Strand

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EDUCATION

University of Colorado Boulder - May 2020

Bachelor of Science Mechanical Engineering, Minor in Computer Science

TECHNICAL SKILLS

CAD: SOLIDWORKS (130+ hrs., CSWA), NX (40 hrs.), AutoCAD Electrical (25 hrs.)

Computer (in order of proficiency): MATLAB, C++, C, Excel, HTML, CSS, Ruby, COSMOS, Git, SVN

Testing/Manufacturing: Oscilloscope Operation, Electrical Test Troubleshooting, Automation Development, Procedure Authoring, TVAC, Random Vibration and Shock Table Operation, Milling, 3D printing

Quality: Requirements Management, Risk Management, Standards Traceability, Verification and Validation Planning

TECHNICAL EXPERIENCE

Quality Engineer II | ALTEN TECHNOLOGY | 10/2023 – Present

V&V Engineer II | ALTEN TECHNOLOGY | 10/2022 – 10/2023

V&V Engineer | ALTEN TECHNOLOGY | 02/2022 – 10/2022

- Review and support development of requirements to ensure specificity, testability, and completeness, with utilization of FMEA and hazard and risk analysis
- Oversee configuration management and document control to assess for conformity to consistent quality processes, customer requirements, and industry standards and regulations (e.g., AS9100, ISO13485, ISO9001)
- Identify and remedy discrepancies between project plan, CIL, test protocols, and ECOs to ensure conformance to internal QMS and certifications

Test Engineer | Deep Space Systems | 05/2020 – 02/2022

- Troubleshoot space flight hardware and software issues by systematically recreating behavior while determining probable root causes and conforming to AS9100 and MIL-STD-1540E standards
- Wrote clear test procedures and format detailed test reports that thoroughly document procedural and/or numerical deviations

PROJECTS

Stryker Anaconda | ALTEN Technology | 07/2023 – 11/2023

- Authored verification plan, verification test procedures, and test reports of a dynamic pressure system intended for clot aspiration
- Provided oversight of product traceability and project requirement traceability, with focus on good documentation practices

Blue Canyon Technologies, Kyber EPS | ALTEN Technology | 02/2022 – 12/2022

- Performed electronics testing of the Kyber Electrical Power System and supported automation of tests using COSMOS and Ruby
- Designed test support harnesses using AutoCAD Electrical to reduce risk of operator error and damage to UUT
- Supported nonconformance investigations and communicated findings and next steps to SMEs

LOFTID EDR | Deep Space Systems | 11/2020 – 08/2021

- DARS with autonomous sequencing during and after ejection from RV and provided real time telemetry and position
- Served as co-test POC during Qualification and Acceptance test flows and lead troubleshooting efforts requiring frequent coordination with LOFTID PM, Electrical Lead, and NASA personnel
- Co-authored CVM and completed verification activity, method, and documentation for 10+ spaceflight hardware deliverables
- Often utilized digital logic analyzer to understand state-dependent behavior and verify nominal functionality of RS422

Wired Camera Assembly Thermal Characterization Test | Deep Space Systems | 11/2021

- Designed and executed thermal characterization test to validate thermal model and assess lens focus shift at cold and hot temperatures
- Devised and optimized test setup to capture MTF images at each thermal balance at vacuum, taking into consideration thermal vacuum chamber viewports in relation to camera adapter plate location, illumination methods of SFRreg test chart, and useful temperature delta between setpoints at cold and hot balances