JULIAN MERCER

SYSTEMS ENGINEER

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PROFESSIONAL SUMMARY

Systems Engineer with 9+ years on aerospace and satellite programs, from requirements and architecture through integration, verification, and launch support. Strong in model-based systems engineering, interface control, and risk management across hardware and software teams. Holds an active security clearance.

CORE SKILLS

Requirements management (DOORS) | Model-based systems engineering (SysML) | Cameo Systems Modeler | Interface control documents | Verification and validation | Trade studies | Risk management | Hardware-in-the-loop testing | System architecture | MATLAB | Configuration management | Technical reviews (SRR, PDR, CDR) | Test procedure development

PROFESSIONAL EXPERIENCE

Senior Systems Engineer Jan 2022 - Present
Lockheed Martin Space, Littleton, CO

- Lead requirements allocation and verification for the ground command segment of a satellite program with a team of nine engineers.
- Maintain about 1,400 requirements in DOORS and traced each to a test, closing 100 percent of verification items before the critical design review.
- Built the system architecture model in Cameo with SysML, replacing document-based interface control with a single source used by five teams.
- Ran trade studies on antenna scheduling options and recommended a design that cut ground contact conflicts by 28 percent.
- Chaired the weekly risk board and retired 22 of 30 open risks over 18 months through mitigation plans owned by subsystem leads.
- Mentor four junior engineers on verification planning and technical reviews.

Systems Engineer Jun 2019 - Dec 2021

- Wrote subsystem interface control documents for flight software and ground systems and managed 60 change requests through the board.
- Planned and supported integration testing in a hardware-in-the-loop lab, finding 35 interface defects before flight software delivery.
- Produced test procedures and reports for system-level verification, accepted by the customer on the first submission.
- Analyzed telemetry from environmental testing to confirm performance margins against requirements.

Associate Systems Engineer Jul 2017 - May 2019
Ball Aerospace, Boulder, CO

- Supported verification of an Earth-observation instrument by writing test cases and tracking compliance in a requirements database.
- Built MATLAB scripts that automated analysis of thermal vacuum test data, saving about 12 engineer-hours per test cycle.
- Prepared design review packages and action item logs for four milestone reviews.

EDUCATION

Bachelor of Science in Systems Engineering, University of Arizona, Tucson, AZ

CERTIFICATIONS

Certified Systems Engineering Professional (CSEP), INCOSE | Project Management Professional (PMP), PMI