Ashley Perez

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(323) 578-2459

Active Top Secret Clearance

Experience

Lockheed Martin Space — Systems Engineer

June 2023 – Present

Systems Engineering & Requirement Verification

- Led the generation of formal ICD verification memos, coordinating across interdisciplinary teams to secure the technical data required for requirement closure.
- Performed technical reviews of mission Interface Control Documents (ICD) to validate all payload interfaces and requirements were properly documented.
- Managed high level documentation updates in Cameo and used Jira in parallel for tracking task status and completion.

Launch Operations and Integration

- Sat on console during launch and monitored fairing telemetry (temperature and humidity) to ensure payload safety and ICD compliance.
- Participated in integration testing, including mechanical matchmates and electrical harness verifications, ensuring flight hardware readiness.
- Developed mission kick off charts, mission handbooks, and day of launch scripts to align cross-functional teams and demonstrate launch readiness.
- Collaborated with the logistics team to coordinate spacecraft ground support equipment (GSE) and hardware transportation.

Mission Analysis & Modeling

- Performed orbital safety compliance using NASA's Debris Assessment Software (DAS) tool to generate orbit lifetime, reentry casualty risk, and probability of damage from debris.
- Engineered orbital models in Systems Tool Kit (STK) to evaluate ground station visibility windows and overall mission feasibility.
- Developed 3D CAD models of launch vehicle fairings in Creo to support mechanical integration and volume constraint analysis.
- Collaborated with a modeling team to transform integration procedures into 3D visual models, validating concept of operations (Conops) and demonstrating technical capability to customers.

Skills

Systems Engineering
Model Based Systems Engineering
Requirements Management
Verification & Validation
Data Analysis
Document Control
Integration Support
Risk Assessment
Configuration Management
Technical Writing
Launch Documentation

Tools

Jira
Jama
Cameo
PTC Creo
EPDM
MATLAB
NASA Debris Assessment Software (DAS)
Systems Tool Kit (STK)
Microsoft Excel
Microsoft PowerPoint
Microsoft Word
Microsoft Outlook
Microsoft Teams