

Wiki Structure

This page presents the structure of this Wiki. It is structured as follows:

1. Introduction & Requirements

- Wiki Structure
- Introduction to the IEEE PQ Kit
- Mission Description
 - Statement and Objectives
 - Data products
 - Mission phases
 - Satellite Operational Modes
- System Description
 - Physical Architecture
 - Functional Architecture
 - Spacecraft System Configuration
 - Radiation protection
- Requirements
 - Mission requirements
 - System requirements

2. Mission Analysis and Characterizations

- Mission analysis
 - Mission analysis report
- Link and Data budget analysis
 - Link budget
 - Data budget
- Space Debris Mitigation
- Space Debris Mitigation report

- Characterization and Calibration
 - Solar cells
 - Battery characterization test
 - Battery degradation test
 - Battery degradation test
 - Photodiodes temperature characterization
 - Gyroscope characterization & calibration
 - Magnetorquer polarisation verification

3. Structure & Subsystems

- Structure
- Subsystems (ADCS, EPS, COMMS, OBC)
 - Description
 - Hardware Design
 - Software Design
 - SSV
 - Tests as run
- Electrical ground support equipment
 - Wiring and setup
 - Design specifications
- Mechanisms
 - COMMS antenna deployer
 - Killswitches

4. VGA Payload

- Description
- Hardware Design
- Software Design
- SSV

5. RFI L-Band Payload

- Description
- Hardware Design

- Software Design

6. RFI K-Band Payload

- Mission analysis and requirements
- Detection algorithms
- Software Design
 - Block diagrams
 - Payload design
 - Antenna design
 - Data acquisition
 - RFI-Dedicated Thread
- Tests
- Tests as run
- Drone campaign

7. Operations

- Operations
 - Mission phases
 - Mission timelines
 - Operational database
 - Operational procedures

8. Procedures

- Assembly & Integration
 - Helicoils
 - COMMS antenna
- Assembly

9. Federated Satellite System

Experiment

- Introduction
- Protocols

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