

# 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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