

ROTORCRAFT LANDER SAMPLING SYSTEM

Aerospace/ Robotics

Project
Management



Software
Engineering



Electrical
Engineering



Systems
Engineering



Quality
Assurance



AVIONICS HW & SW DEVELOPMENT FOR A ROTORCRAFT LANDER SAMPLING SYSTEM

APPROACH

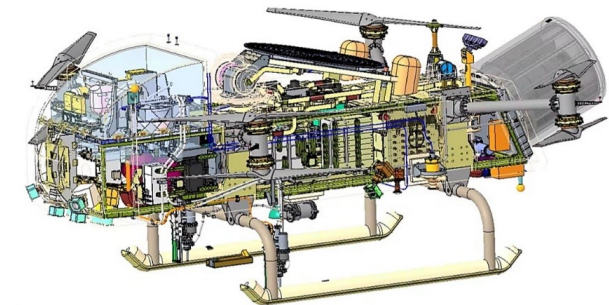
- Implement Agile methodologies and use Jira for kanban tasks
- Maintain open communication with client through multiple weekly subteam meetings, such as hardware versus software
- Update system- and PCB-level requirements
- Perform software and system verification and unit testing

RESULTS

- Completed six PCB designs, including component selection using EEE-INST-002 parts classification for radiation hardness, component creation, schematic capture, and layout
- Performed first article inspection and board bring-up testing of all PCB designs
- Built the flight software architecture and planning document for communication with rotorcraft lander

KEY TOOLS & TECHNOLOGIES

- Altium Designer
- Python, Ruby, C, RTOS



ALTEN TECHNOLOGY