

SATELLITE PLATFORM

Space

Software
Engineering



FLIGHT SOFTWARE, TEST SOFTWARE, AND SIMULATION SOFTWARE DEVELOPMENT FOR SATELLITE PLATFORM

APPROACH

- Integrated software resources into various client project teams over a four-year duration
- Applied best practices from ALTEN Technology software development process
- Determined software requirements and architecture in collaboration with the client
- Leveraged client's software development process and toolchain

RESULTS

- Created software requirements and software architecture
- Created detailed software design
- Implemented flight software for a satellite platform, including radiation mitigations
- Implemented flight software for a satellite power management subsystem
- Implemented test software platform for automated testing of flight software and hardware for a satellite platform
- Implemented simulator software for a control and telemetry ground system

KEY TOOLS & TECHNOLOGIES

- Vorago
- Linux
- VxWorks
- Docker
- Qt
- C++
- C
- Python
- MIL-STD-1553