

Changing the Economics of Space

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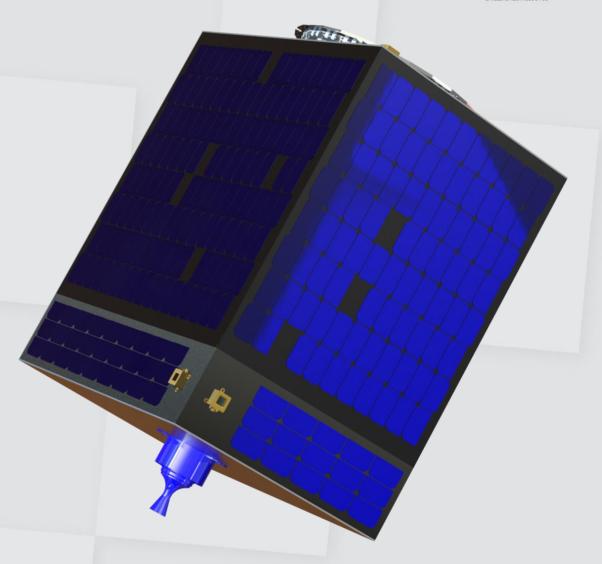
Kaber-Class Satellite: FeatherCraft

Michael Brown - System Design Lead



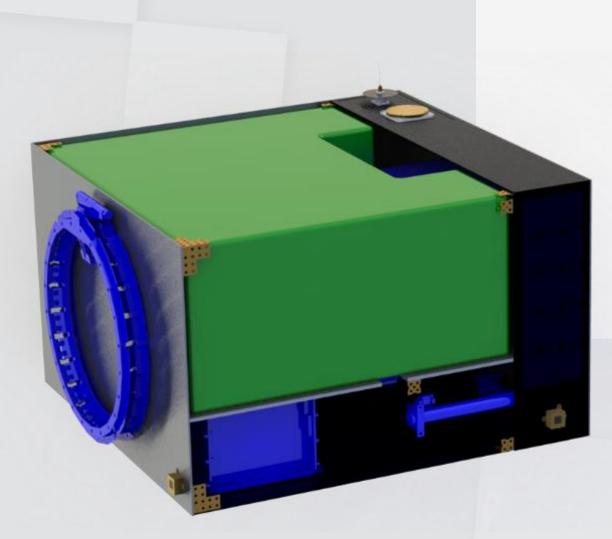
Overview

- 100kg ISS-deployed Spacecraft
- Payload hosting for up to 5 years
- Contract to launch in 19 months or less
- Provides notable performance and capability at a fraction of the cost of conventional payload hosting missions
 - \$6M -\$12M









Mission Lifetime: (up to) 5 years

Available Orbits: (up to) 550km

Payload Mass: (up to) 45kg

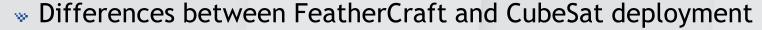
Payload OAP: 50W (80W peak)



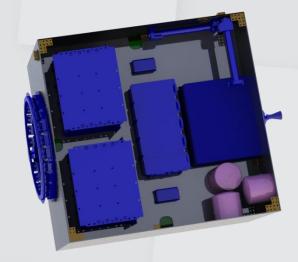
Advantages to using NanoRacks (vs. Conventional ELV)

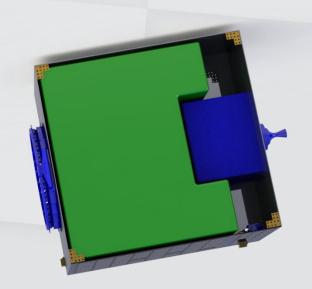
W Kaber launch:

- Cheaper
- o 6 launches per year
- Additional payload volume
- Lower launch loads
- Reduced EMC requirements
- Deployment is video recorded (great PR)



- Payload power accommodations
- Thermal control
- Data uplink/downlink
- Propulsion up to 550km
- Increase lifetime up to 5 years







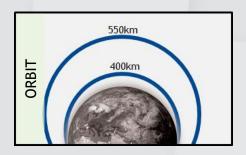
Payload Accommodation/Opportunities

• Optimal for:

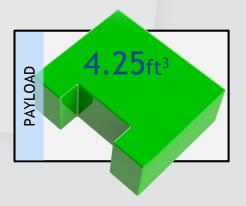
- Science Opportunities
- Technology Demonstration
- TRL Maturation
- Weather Instrumentation

Accommodations:

- Multiple orbit options up to 550km
- Significant payload volume
 - o >4ft³ for multiple payload sizes and configurations
- Multiple power needs accommodated
 - o Deployable array add-ons available
- Routine data downlink to secure ftp site
- Cost reduction through 'a la carte' performance upgrades



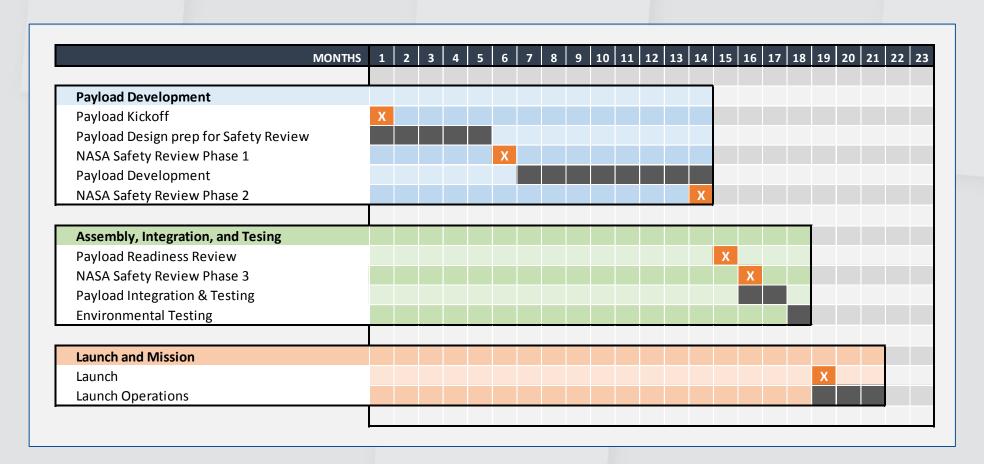






Schedule

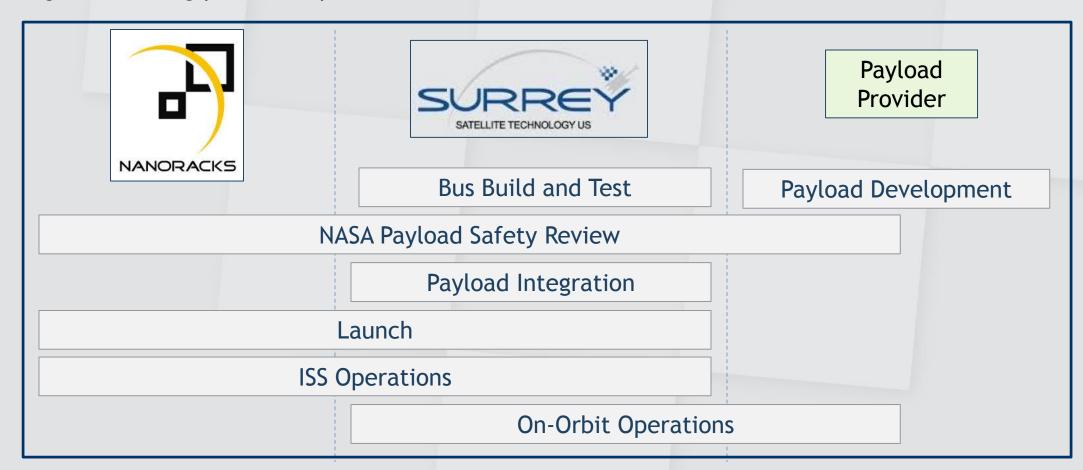
- 16 months to Payload Integration
- 19 months to Launch



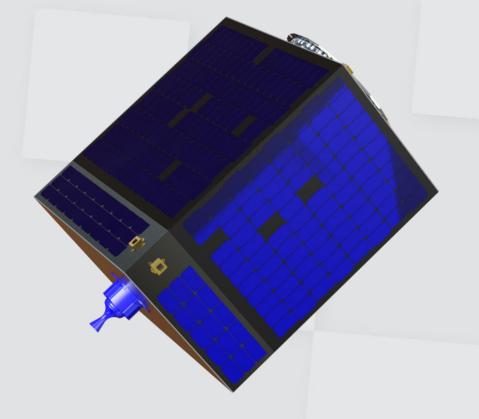


Why SST/NanoRacks

- Experience of 43 missions
- SST-US Manufacturing Facility centrally located near Denver, CO
- Logical teaming partnership







Thank you!!!

From Surrey Satellite Technologies!

Michael Brown - System Design Lead

