



NanoRacks and CubeLabs

Affordable, Recurring, μ Gravity Research

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Kentucky Space



- Non-profit organization supported by a consortium of universities throughout Kentucky working cooperatively to facilitate aerospace research within the state
- Consists of university faculty, staff and students with mentors from industry
- Space Systems Lab successful track record
 - High Altitude Balloons
 - Sub-Orbital Sounding Rockets
 - CubeSats
 - ISS Operations



NanoRacks



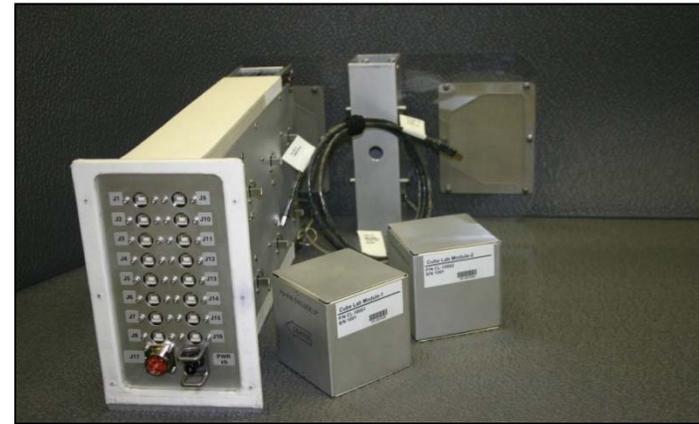
- ❑ Experienced team of integrators and mission planners
- ❑ Partnered with Kentucky Space and Signed SAA: 9/09
- ❑ On orbit: 4/10
- ❑ Operational: 7/10



What are CubeLabs?

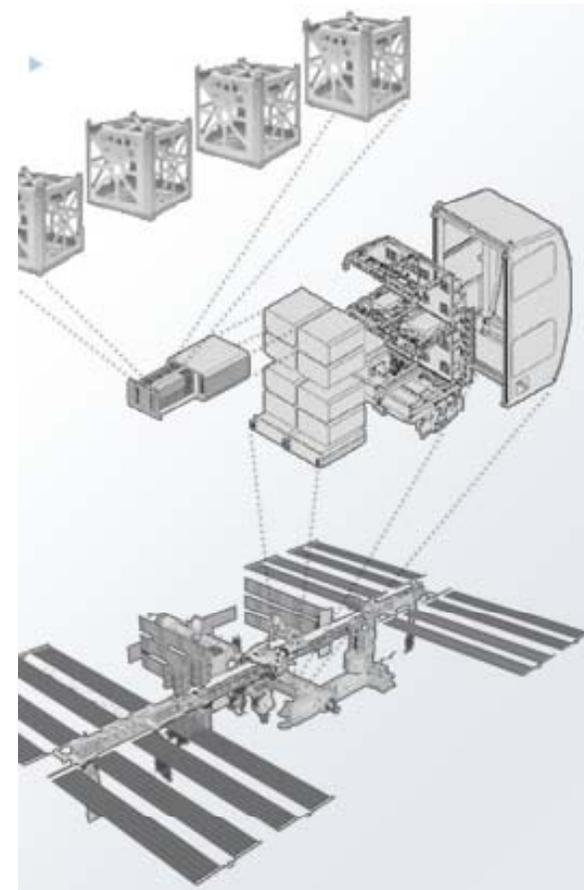
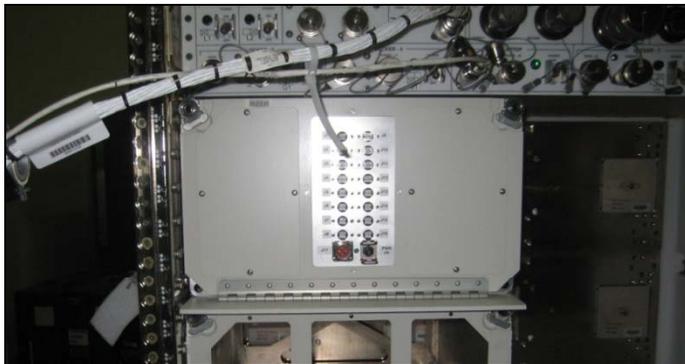


- ❑ Low cost, one kilogram platform for μ G research
- ❑ Repeatable Access
- ❑ Downmass Negotiable
- ❑ Based on CubeSat Standard
- ❑ Up to 4x2U currently allowable
- ❑ Interfaces to the NanoRack Frame



What is the NanoRack Platform?

- ❑ Provides conditioned power and data connectivity to CubeLab Modules through ExPRESS Rack
- ❑ Room for 16 1U CubeLab Modules
- ❑ USB mass storage standard for data transfer



How Can We Help You?

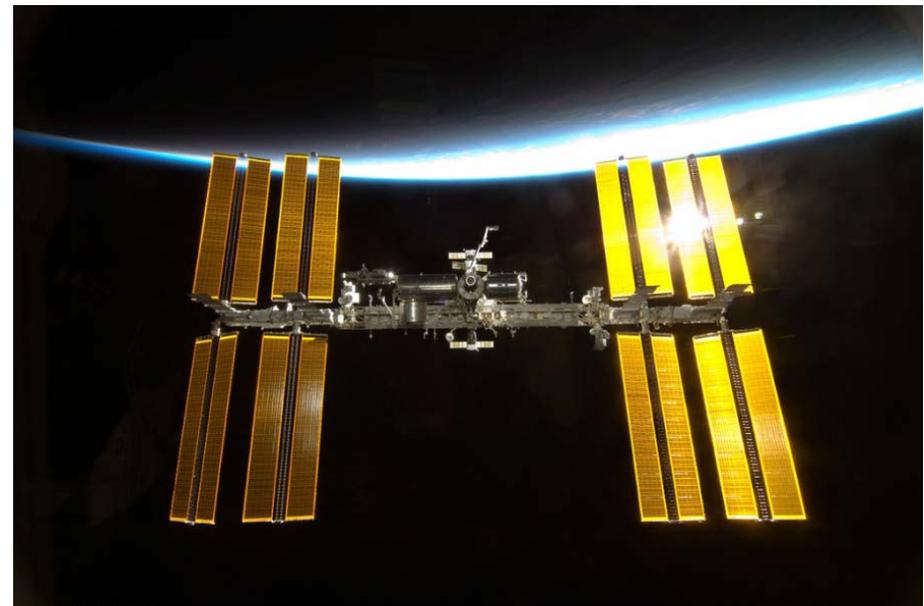


□ Experiment Design

- Embedded Systems
- Miniaturized Sensors
- Partnerships with the CubeSat World
- Flight Certification
- Manifesting

□ Operations

- Procedure Generation
- Crew Training
- Real Time Operations Support



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Why CubeLab?



- ❑ Right Price Point
- ❑ Standardized but Flexible
- ❑ Manifest Capability on All ISS Transport Systems
- ❑ Ship-N-Shoot Pathfinder; Rapid Access
- ❑ Currently On-Board With Successful Operations
- ❑ Customers Manifested



Questions?



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