



KySat History, Status, Direction

CubeSat @ SmallSat, Logan UT

13 August 2006



KySat History



- Kentucky Science and Technology Corporation

- Science and Technology Education
- Research and Development
- Technology Innovation
- Workforce & Economic Development



- KSTC Branch Office

- NASA Ames Research Center
- Bob Twiggs
- Stanford KatySat



- KySat Consortium Formed

- Public Organizations
- Private Companies
- Five Kentucky Universities



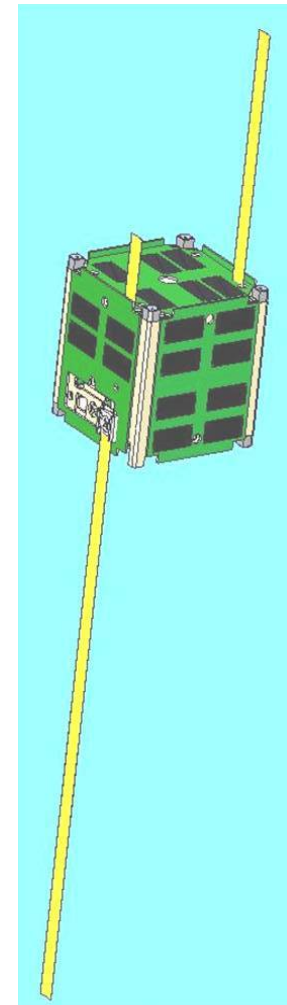
KENTUCKY SCIENCE &
ENGINEERING FOUNDATION



KySat Status & Direction



- Technology Team “Retreat”
 - Seven Students, Five Universities, Ten Weeks
 - KSTC Branch Office at NASA Ames
 - Stanford Class Interaction
- Status
 - Full Bill of Materials
 - Mechanical Designs Complete
 - Software Systems Specified
- Direction
 - Engineering Model by December
 - KySat2 New Students in January
 - Software Locked/Flight Model by March
 - Ship to Launch Integrator by July



KySat Technology Team



- Alaa Aly
 - University of Louisville
 - Software Systems
- Jennifer Carter
 - Morehead State University
 - Ground Operations
- Garrett Chandler
 - University of Kentucky
 - Systems Design
- Daniel Erb
 - Murray State University
 - Support Systems
- Bill Hutchison
 - University of Louisville
 - Mechanical Systems
- Dale McClure
 - University of Kentucky
 - RF Systems
- Greg Strickler
 - Western Kentucky University
 - Software Systems



KySat1 Mission



- Lay Foundation for Advanced KySat Missions
 - Reliable Satellite Platform
 - High-Bandwidth Ground Station
 - Terrestrial Data Distribution Methodology
 - Draw Positive Attention to KySat Enterprise
- Science and Engineering Education on Orbit
 - K-12 Target Audience
 - Interest Children in Science and Education

Standout Deltas



- ❑ HAM APRS Compatible
- ❑ 21-Meter S-Band Dish
- ❑ S-Band Radio as Payload
- ❑ Audio Telemetry
- ❑ Rapid Design & Build
- ❑ Educational Focus





More Info:

<http://www.engr.uky.edu/idea/go/?10>

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