

# **AAVG**

## **Advanced Aero Vehicle Group**

High Power Rocketry  
2006-2010

By: Dave Althuis

- Mission: Loki Dart Configuration
  - M1939- Highest altitude
- Results: Altitude-19729 feet



## NASA-USLI

- Mission:
  - 5280 ft
  - Scientific Payload
  - Outreach
  - Reports
    - Proposal, PDR, CDR, FRR, PLAR
- Website



# NASA-USLI 2008

## University Student Launch Initiative

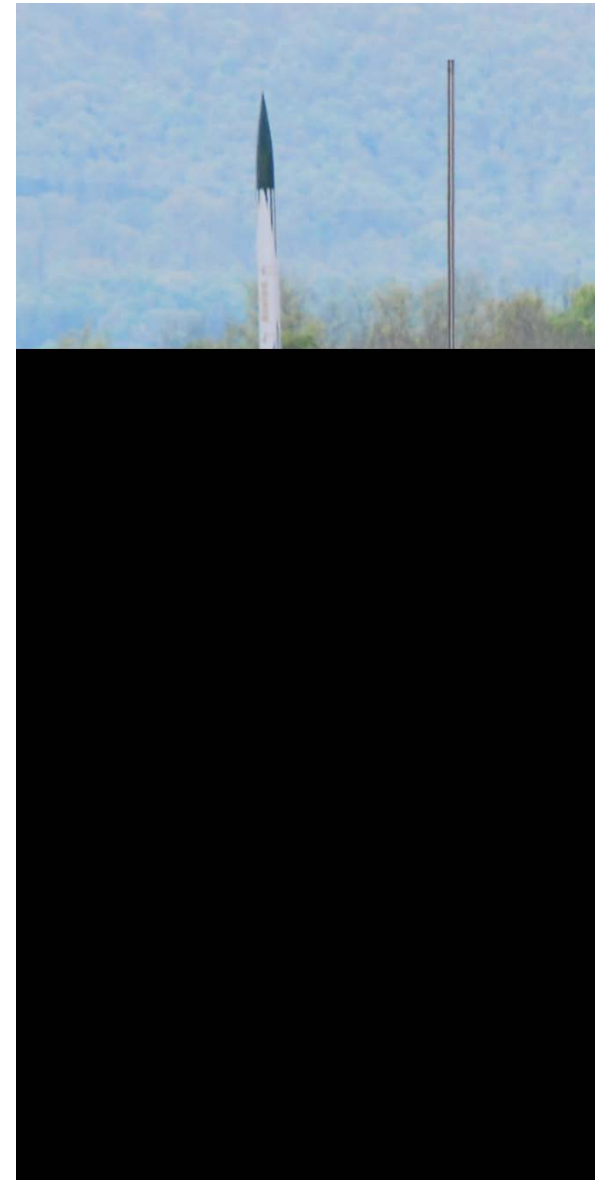
- Mission:

- 5280 ft AGL
- 3-axis accelerometers, GPS, telemetry



# NASA-USLI 2009

- Mission:
  - 5280 ft AGL
  - Force Measurement via Strain Gauges



- Strain Rosettes
  - Fin
  - Airframe
  - Motormount



# NASA-USLI 2010

- Mission:

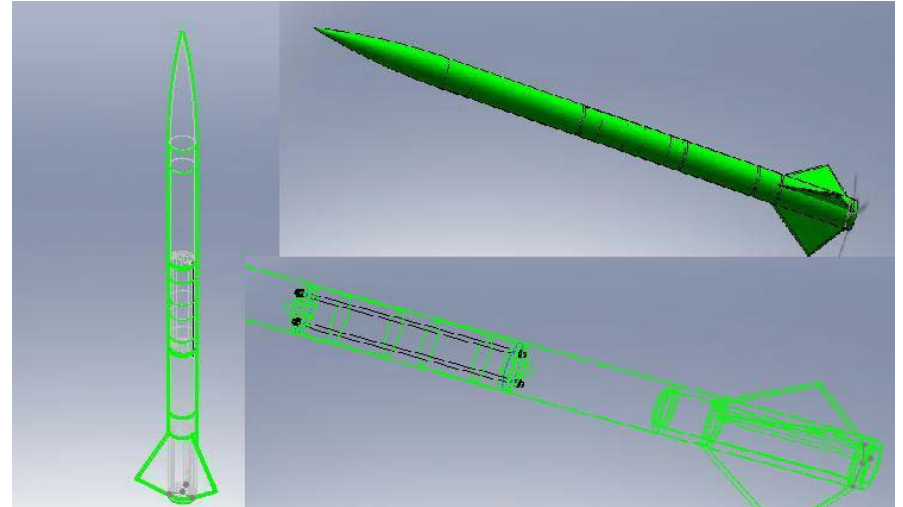
- 5280 ft AGL
- Spin stabilization of a statically unstable rocket
- Pressure sensors



# NASA-USLI 2011

- Mission:

- 5280 ft AGL
- Descent Module
  - Pressure
  - Temperature
  - Humidity
  - UV Radiation
  - Solar Irradiation
  - Pictures
  - GPS Tracking



*Missouri Space Grant Consortium*