



*Unlimited Possibilities for Business and Education<sup>sm</sup>*

# **Creating the Demand: Free and Low Cost Flight Opportunities for Education and Research in Space**

**ISPCS 2010**

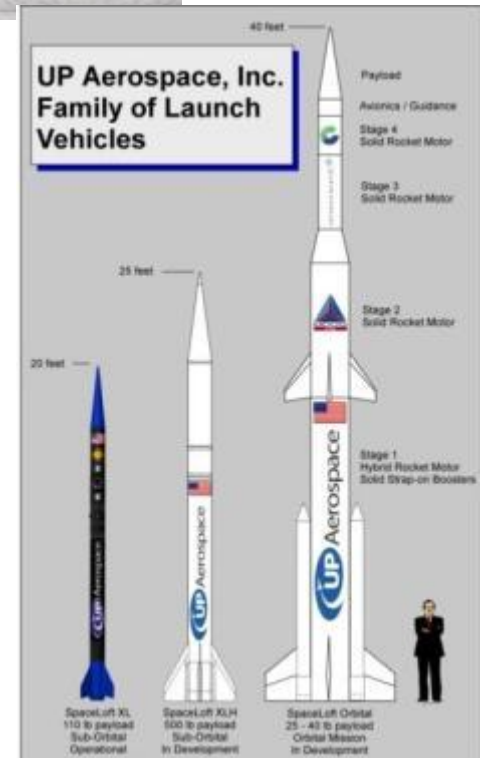
**Jerry Larson, President and CEO**

**1<sup>st</sup> annual Student Launch  
May 2009**

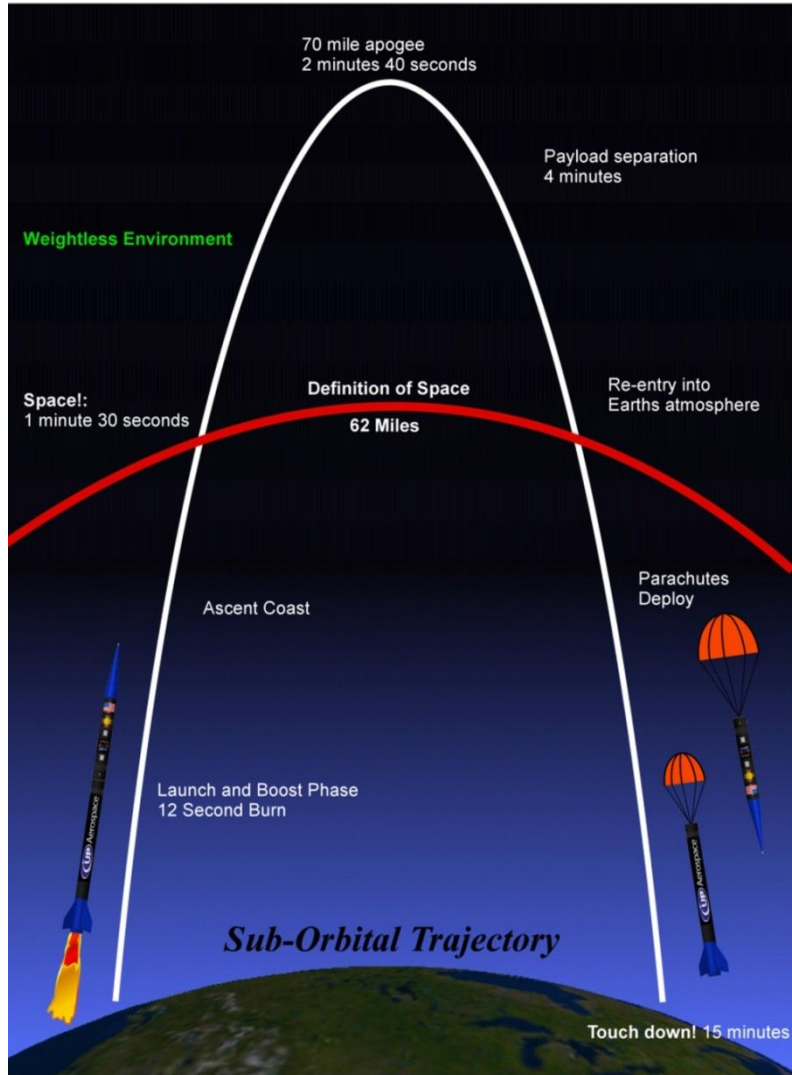
# Company Overview

- **Space Launch Service Provider**

- Rocket Technology Development
- US Military Payload Launches
- Major Aerospace Company Launches
- Educational Space Launch Programs



# SpaceLoft Sub-Orbital Launch Vehicle



## Payload Bay

- 4 PTS-10 (10-inch-tall)
- 3 PTS-4 (4-inch-tall)
- TinySats
- 3 payloads in nosecone section

## Recovery Section

- Avionics
- Parachutes
- Tracking systems

## Booster

- Solid rocket motor
- Fin assembly

- **800 pounds at Liftoff**
- **20 feet tall**
- **4-5 minutes of Microgravity**
- **Reusable Launch System**



Student space flown experiments aboard the SpaceLoft rocket

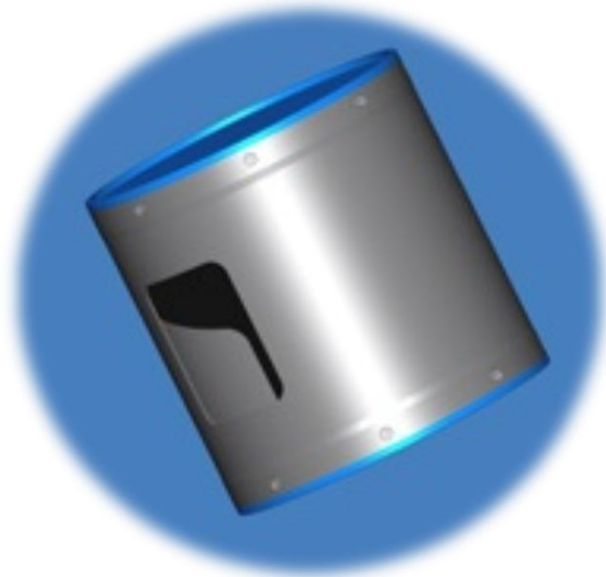
- 2000+ students
- 75+ middle, high schools and Universities
- 20+ states and the Netherlands



**Colorado Space Grant Consortium**

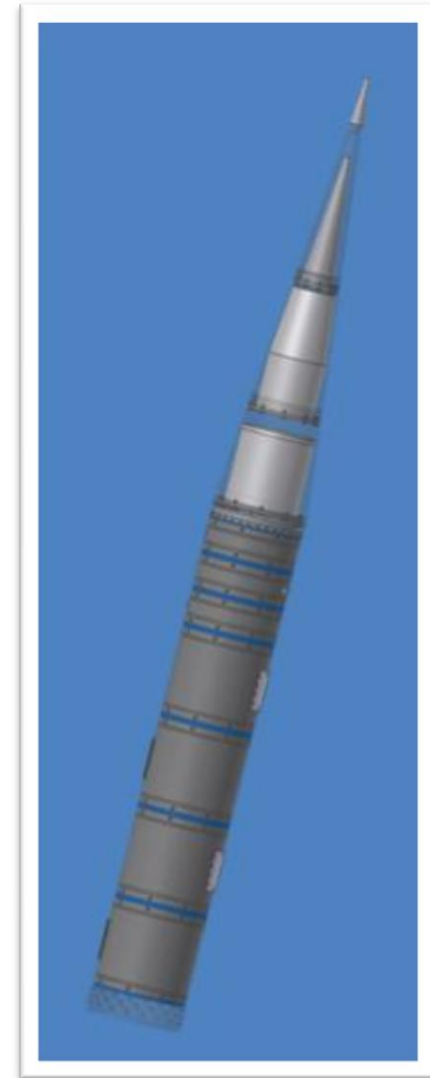
## *Creating the Demand: Modular Payload System*

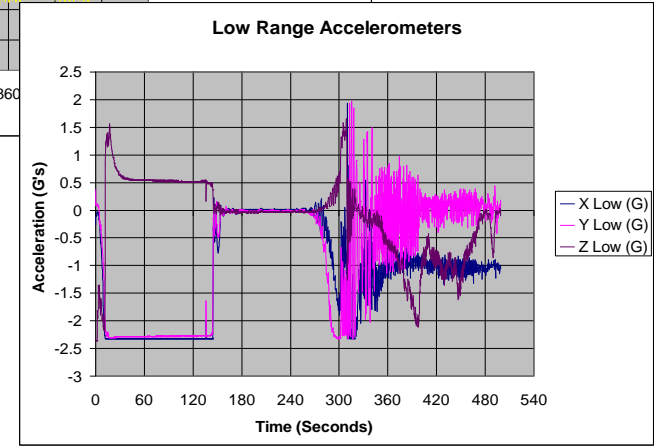
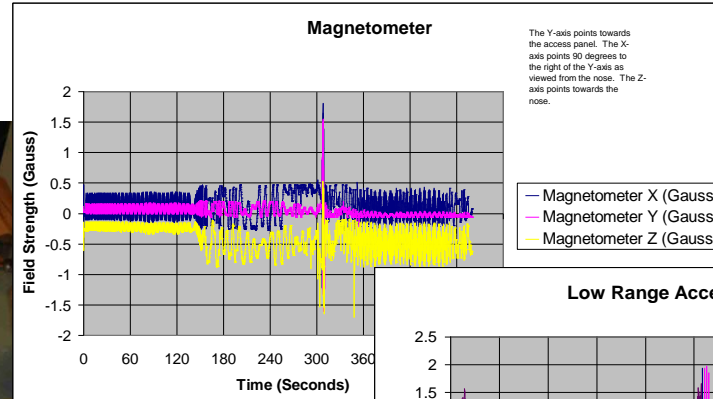
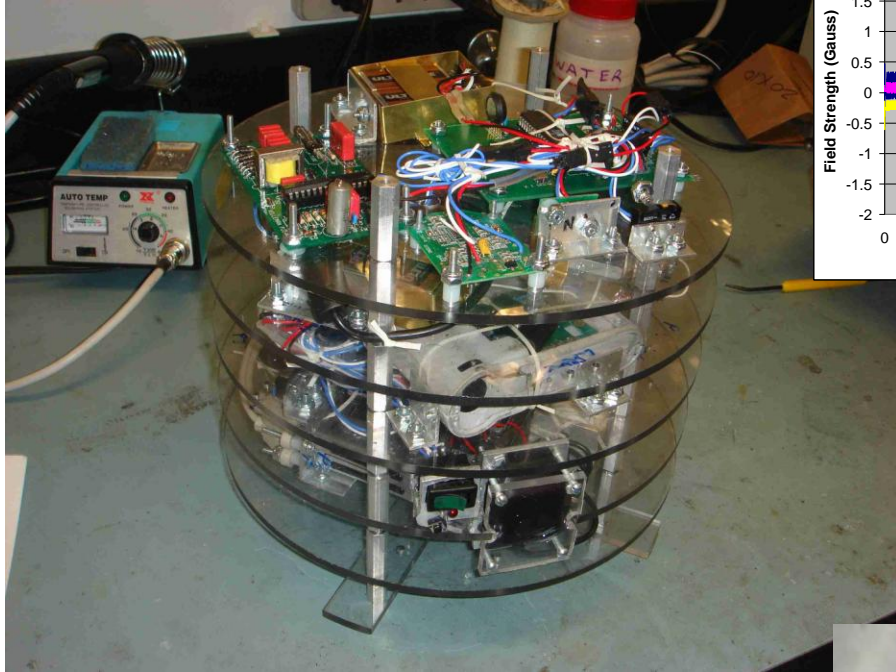
- Ride cost sharing
- Different priced module sizes
- Integration independent from the launch vehicle



### **Payload Transportation System (PTS)**

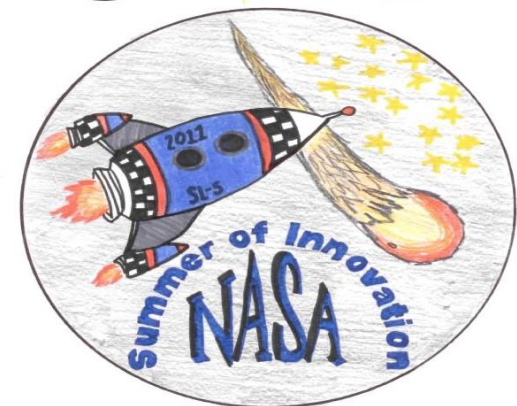
Patent Pending





# Creating the Demand: Educational Program Support

- Presentations at universities, high schools and grade schools
- Offered Free rides and reduced cost flights for educators
- Launch Pad Tours
- Payloads loaded by students
- Student designed mission patches
- Payload development engineering consultation
- Student in mission control to launch the rocket (new)



*Next  
SpaceLoft Launch  
April 1, 2011*

*3<sup>rd</sup> Annual Student  
Launch Program*

