Project Disco!
Team Disco!

- **Group Leader:**
  - Kyle McClary
    - EE major; background in electronics

- **Group members:**
  - Kevin Ufferman
    - EE major; background in electronics
  - Joshua Land
    - EE major; background in RF Technology
    - Employed at the Center for Rapid Product Development, AFRL

- **Advisor**
  - Dr. John Wu
Problem

- Lost payload
  - Lost data and equipment
Project Description

- Implement visual/audible strobe to balloon payload
- Aid in payload retrieval
Deliverables

• Audio/visual beacon
  – High intensity
  – Easily audible
  – Low power
  – Lightweight
  – Meets FAA regulations
Specifications

- **Weight**
  - < 100 grams

- **Visibility**
  - ~ 1 mile

- **Audio**
  - 120 dB

- **Power**
  - ~ 1 Watt

- **Unit Cost**
  - < $100

- **Timing**
Timeline

• Rough design specifications  
  – Jan. 28
• Design specifications  
  – End of Feb.
• Prototype  
  – End of March
• Test & Evaluation  
  – April
• Deliverables  
  – Launch date (May/June)
Questions