

# Agenda 10/23/15

**Officially Registered for IREC 2016!**

**Overall Goal for the year:**

*Successfully launch a self manufactured rocket motor to 10,000 ft and recover safely.*

Be thinking about goals for your subteams

**Chain of Action**

1. Weight for propulsion
  - a. Propulsion for impulse, thrust
    - i. Aerodynamics for speed of rocket
      1. Electronics- doesn't apply
      2. Payloads- doesn't apply

**Current Rocket Design Specs**

Aerodynamics

**Weight: 28lbs**

**Length:**

1. O-Give nosecone
2. Trapezoidal fin
3. Material CF for body

Propulsion

**Weight: 5-7**

**Length: 24"**

**diameter: 3"**

1. Ammonium perchlorate and aluminum
2. Commercial engine & case nozzle

Recovery

**Weight: 15**

**Length: 36"**

1. Controllable parachute

Electronics

**Weight: 3lbs**

**Length: 12"**

1. See Recovery Presentation

Payload

**Weight: 10lbs (Glider~2lbs)**

**Length: 24" tube, 20" wingspan**

1. Collapsible autonomous Glider

Hybrid Propulsion

1. Oxidizer- nitrous oxide
2. Nylon and HTPB

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## Upcoming Dates:

**10/23 F-Subteam Critical Design(non-CAD)- rough numbers & dimensions**

10/26 M-

10/30 F-

**11/2 M-Subteam design CAD model**

11/6 F-Dad's Weekend(Meeting TBD?)

11/9 M- Aero/Propulsion/Payloads **Constructive design review & Items needed to build**

**11/13 F- Recovery/Electronics Constructive design review & Items needed to build**

11/16 M-**Hard calculations, validation**

11/20 F- Meeting?

11/23 M- Thanksgiving Break

11/27 F- Thanksgiving Break

11/30 M-

**12/4 F-Integrated CAD Model**