

# Agenda 10/12/15

## Rocket Launches on Friday

Winner: Jon Farrell with 24.55 seconds

Close Second: Ryan Blanchard at 22 seconds

Longest Time: Katlyn Struxness with 7.14 seconds



## JD Metal Shop Training

## Preliminary Design Options

## Payload Dimensions and Weight

### Current Specs:

1. Length(tip to tail): 24"
2. OD of Rocket: 5"
3. Weight: 10lbs
4. Will house a foldable wing RC glider

## Upcoming Dates:

10/12 M- **Preliminary Design options Subgroup**(type of nosecone, propellant...)

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10/16 F

10/19 M

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

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

**11/13 F- Hard calculations, validation**

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

## **Current Preliminary Rocket Designs**

### Aerodynamics

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

### Propulsion

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

### Recovery

1. Controllable parachute

### Electronics

1. See Recovery Presentation

### Payload

1. Collapsible autonomous Glider

### Hybrid Propulsion

1. Oxidizer- nitrous oxide
2. Nylon and HTPB