**Description of this Section:** A proposed and detailed approach to rocket and payload design.

**Comments from last time:**

* **The team developed a RockSim model and provides specific performance predictions. Does the model account for the mass of the payload and other hardware? If so, how were the estimated values for the hardware determined?**
* **Since the team has an initial design, model, and motor chosen, additional predicted performance data could be included to show that the team is aware of the project requirements pertaining to items such as the exit rail velocity, descent time, descent velocities, and maximum drift.**
* **The planned construction methods could be discussed. For example, how will the team ensure the fms are evenly spaced when installed?**
* **The proposed payload is both interesting and innovative.**
* **The team does a good job outlining the planned payload. The redundancy features demonstrate that the team has taken the time to think through the execution of the experiment.**
* **The team discusses some project requirements and how they will be addressed but there is room for improvement. A list of every single requirement from the handbook with a statement describing how the requirement will be met would help demonstrate to reviewers that the team has considered every requirement. This list could be included in the form of an organized chart to aid reviewers in fmding information about specific requirements.**

**a. Vehicle Dimensions, Materials, and Methods**

a. Include general vehicle dimensions, preliminary material selection and justification, and con-struction methods.

**b. ProjectedAltitude**

b. Include projected altitude and describe how it was calculated.

**c. Recovery System**

c. Include planned recovery system design.

**d. Motor System**

d. Include projected motor brand and designation.

**e. Payload**

e. Include detailed description of the team’s projected payload.

**f. Requirements**

f. Address the General, Vehicle, Recovery, Payload, and Safety requirements outlined on pages 5-12 of this handbook.

**g. Challenges and Solutions**

g. Address major technical challenges and solutions.