Propulsion

1. Develop, test and optimize a working Hybrid Rocket Engine, Runaway.
   1. Manufacture, test and optimize and repeat
2. Develop, test and integrate an integrated rocket engine gimbal system
   1. Quadcopter drop a small rocket with COTS engine with a small gimbal system to test proof of concept and optimize code
   2. Develop, manufacture and test a hybrid gimbal system to integrate with Runaway

Frame

1. Work with every engineering team to design the best rocket frame and internal structures needed for flight including the propulsion, avionics, recovery and payload modules.

Avionics with Payload/Recovery

1. Design, build and test a payload to conduct scientific research (this is totally open)
2. Create a full-proof recovery system for apogee for the payload deployment and main rocket recovery.
3. Develop the electrical system to power the navigation and control of the rocket.
   1. Will work closely with the gimbal project
4. Ensure that the rocket has optimum performance during testing and launch (pulling one ‘Remove Before Flight’ and turning all systems on in the rocket.

Operations

1. Communicate with all teams above to design, manufacture and build test equipment, procedures and plans for all testing being done.
2. Lead the project to secure an area for SEDS to base all testing on, including the development of the mobile mission control bunker.
3. Lead major sub-projects as they arise.
4. Opening on project
5. Meet some of the group
6. Major goals
7. Decide roles
8. Software and tech --- TRELLOOOO
   1. Constant updates
9. Summer goals:conversation
10. Finance – networking
11. More analysis, work on that