Weekly Update: 10/31/2016

Hey all,

Hey all, I’m hosting a BBQ and pool party at my apartment complex on **Sunday at 12pm**. To cover the cost of food and drinks, I am asking that everyone pitch in $4. I will create a fb event post it on the TRC fb page. You should also receive an invitation sent out to the google group (although I’m not sure that’ll work). Hope to see you all there! It’s a great time to get to know the people you are working with better!

**General Team Updates:**

**Nozzle Optimization:** [**Issue #1**](https://github.com/tritonrocketclub/Propulsion/issues/1)

GD&T drawings are almost complete for each component of the nozzle. The 3D model is complete and being used for fit checking. Stress and Thermal analysis underway. Fluid analysis beginning this week and will continue until mid-next week. **Any to the nozzle must be finalized by 11/12**.

**Avionics Integration:** [**Issue #5**](https://github.com/tritonrocketclub/Propulsion/issues/5)

Total cost is projected to be~$220, less the cost of welding/coupling in required and the cost of vacuum grease. Estimate end cost is ~$300. We've haven't taken thermodynamics, so it's suggested that the CFD team vet our design before physical testing in the static fire. Also, Parker has a pressure transducer we can use for the static fire; he doesn't recommend we use it for launch because the original spec sheet is ambiguous. Using his for testing would be preferred because if the stand-off pipe fails to isolate the transducer we won't lose the good transducer.

**CFD:** [**Issue #4**](https://github.com/tritonrocketclub/Propulsion/issues/4)

It is critical that we have the ability to perform CFD analysis soon. Might be time to resort to ANSYS only if OpenFOAM and code\_saturne refuse to work.

**Structures Integration:** [**Issue #6**](https://github.com/tritonrocketclub/Propulsion/issues/6)

Starting on meche design for camera mount and antennas.

**Liquid Engine:**

We need to get moving on this project. This is a big project and we will all need to be dedicated to get it done properly. If you want to work on this project, I will expect accountability with regards to your work and meeting your deadlines.

A lead for this project will be chosen by Friday.

The Liquid Propulsion System Lead will lead the liquid group to create Triton Rocket Club’s first liquid rocket. Due to the enormous knowledge gap, this person is expected to:

-delegate tasks supporting the liquid engine project

-keeping in close communication with Cameron and Bill

-establish deadlines and ensure they are met

**Kerbal Space Program:** [**Issue #9**](https://github.com/tritonrocketclub/Propulsion/issues/9)

Project now joint effort with Mission Ops. Trying to get data out of Kerbal to command line. Deadline to complete that is this weekend to stay on track.

**Manufacturing:**

* Help wanted!!
* If you are interested in manufacturing for the team this year, send @jcraighe a dm on Slack
* Manufacturing nozzle and bulkheads
  + Possibly avionics bay and section adapter

Best,

Cameron Flannery