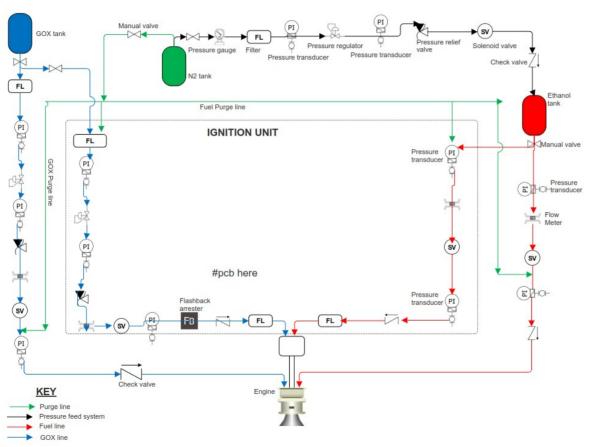
Liquid Propulsion Report

Week 5

Tasks Allocated for this Week

- Complete P & I D
- Adding purge lines
- Design test stand
- Purchase the required equipment
- Etching the PCBs(Power Distribution Board and Control Circuit)

Piping and Instrumentation Diagram

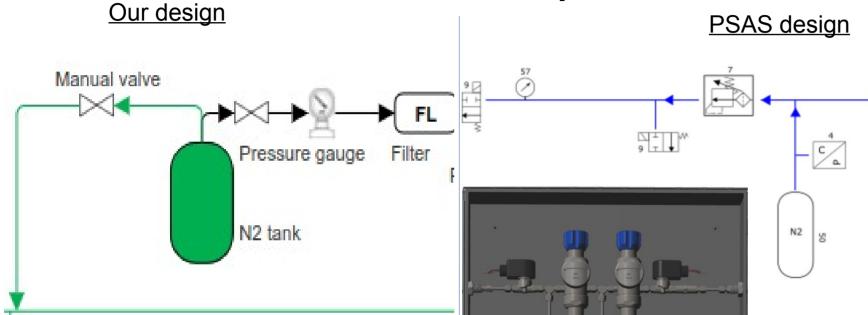


Parts

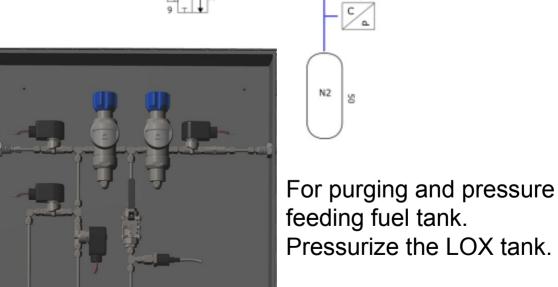
- Pressure panel
- Pressure Feed System
- Fuel Line
- GOX Line
- Purge Line
- Igniter

Design inspiration:
 PSAS rocket

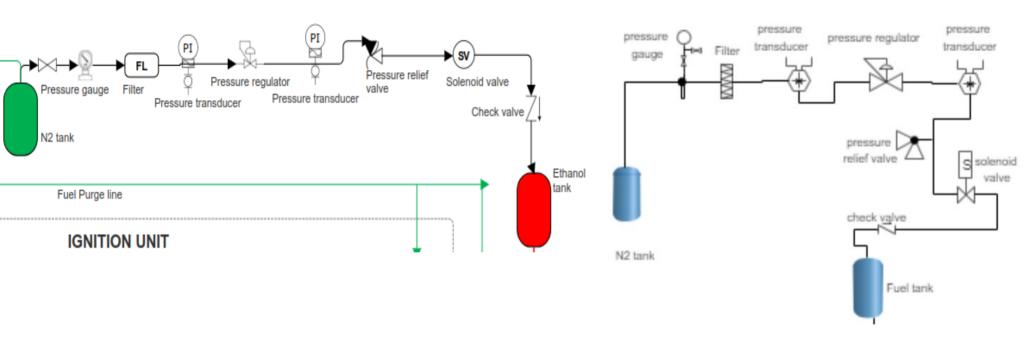
Pressure panel



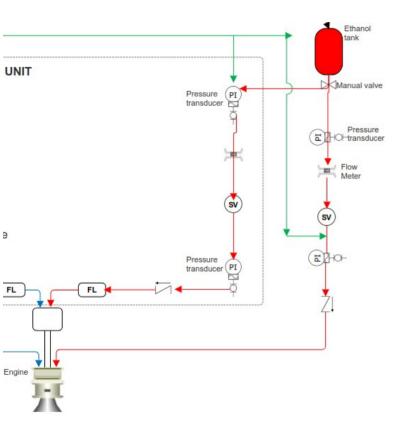
For purging and pressure feeding fuel tank.
We don't pressurize the GOX tank.

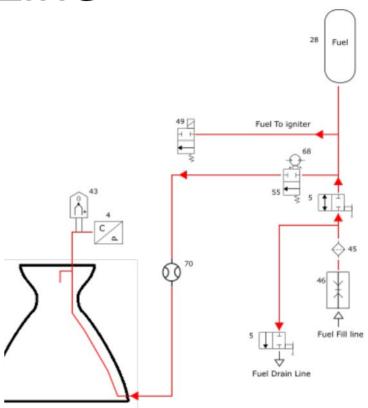


Pressure Feed System

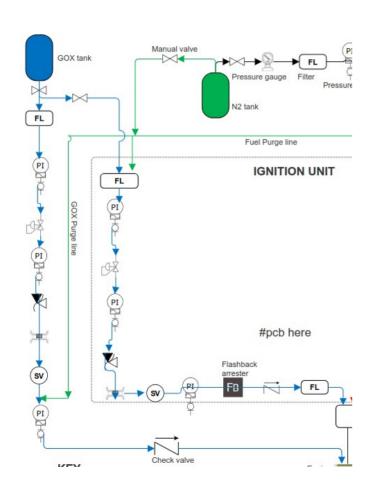


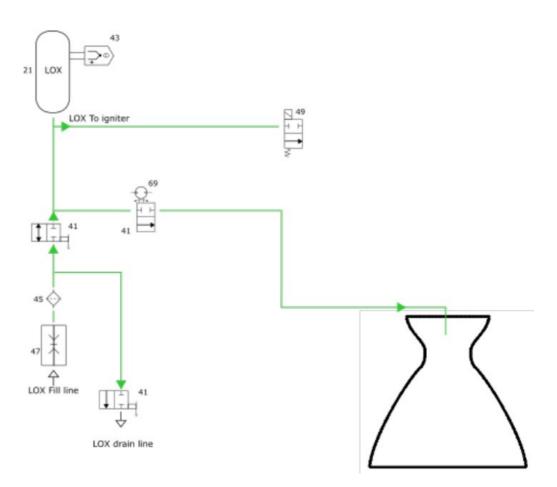
Fuel Line



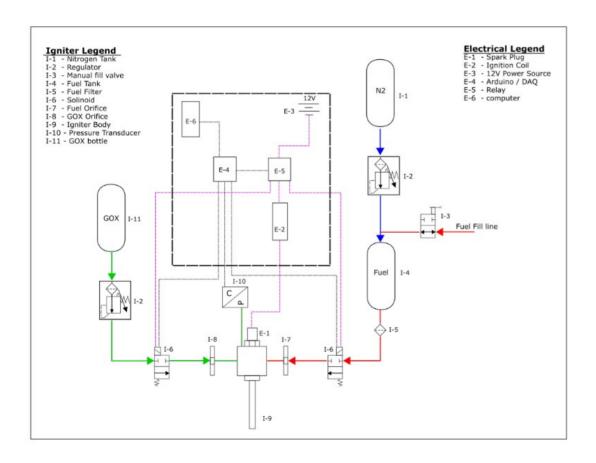


GOX line





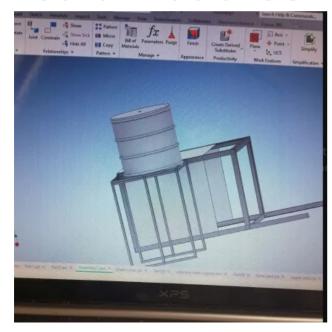
Igniter

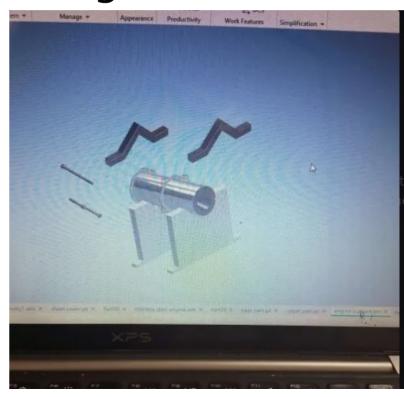


PSAS Igniter

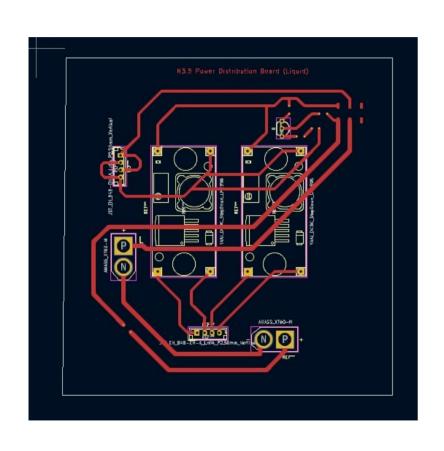
Test stand design

- We come up with three design
- Circular load cell



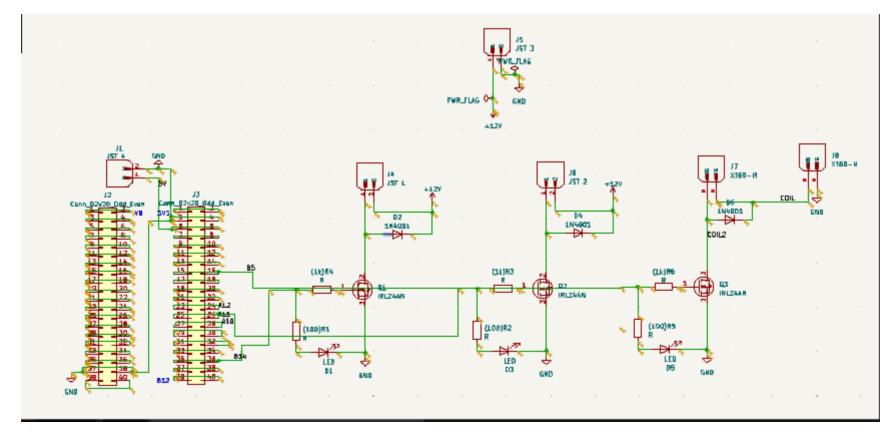


Power Distribution Board

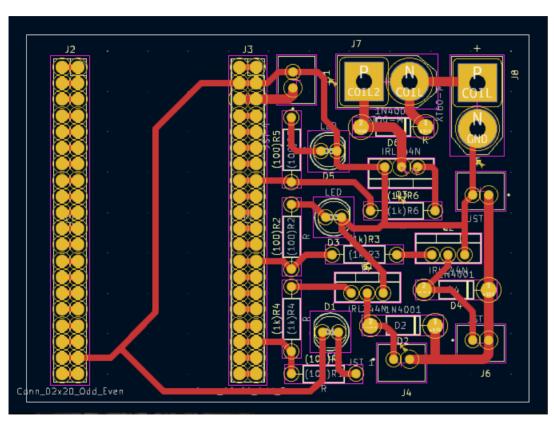


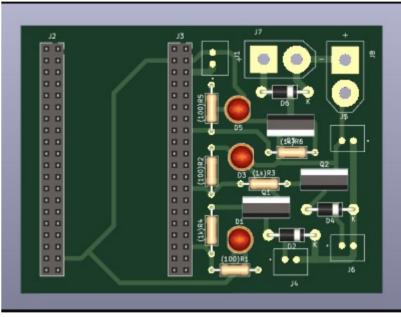


Control Circuit (#69) Final PCB schematic



Copper Trace PCB





Next Week's Tasks

- Complete the design of the test stand
- Fabrication of control and power PCB
- Testing of the new PCB's
- Simulating the strength of the different test stand designs

THANK YOU