**Capstone Meeting With Andrew**

11-13-2018

Notes:

* Previously, all motors have been off the shelf
* Solid fuel rockets can’t make it to 100km
  + That’s where EFS comes in
* Solid rockets have to be continually redesigned, rockets get damaged frequently
* Liquid fuel rockets are easier to scale!

Current Problems:

* We DON’T know the pressure in our engine
  + LFETS will be test firing the half-scale engine in spring
    - Chamber pressure for 2.2kN
    - Chamber pressure for flight

**MUST:** Do cold-flow test

**SHOULD:** Do LOX test, impact & vibration testing

**MAY:** Utilize test stand

For this term:

Research to find:

* Weight
* Volume
* Pressure
* Energy
* Budget

Numbers and data from the cold flow test are the **most important** outcome of this capstone

Need: Data acquisition

* Pressure
* Temp
  + In
  + Out
  + Chamber
* RPM
* Shaft torque

<https://en.wikipedia.org/wiki/Rutherford_(rocket_engine)>