**Test Stand**

a complete video on thrust measurement: <https://youtu.be/OeZBPOZyDHs?si=iFzIfY--I_ka5EYg>

code for this: <https://github.com/TheEveryDayEngineer/Thrust-Measuring-System-files/blob/main/Thrust_Measuring_System.ino>

(they have used nano)

I have added a similar code for uno in my github repo

We can use mirco sd to see the data stored after ignition

Load cell capacity should be higher than our max expected thrust

The HX711 is very sensitive to voltage fluctuations and EMI (electromagnetic interference)

During rocket ignition, power dips or spikes can cause:

* Dropped readings
* Random spikes in data
* Resetting of the Arduino

Fixes:

* Use a separate regulated5Vsupply for the HX711 if possible.(we can use buck converter)
* Physically separate power-heavy ignition circuitry from the Arduino/HX711

Arduino Power Supply Instability

If the Arduino shares power with an ignitor circuit or motor controller, the voltage can momentarily dip,so we should use a dedicated 5v supply just for the arduino as discussed earlier,should be separated from ignitor