

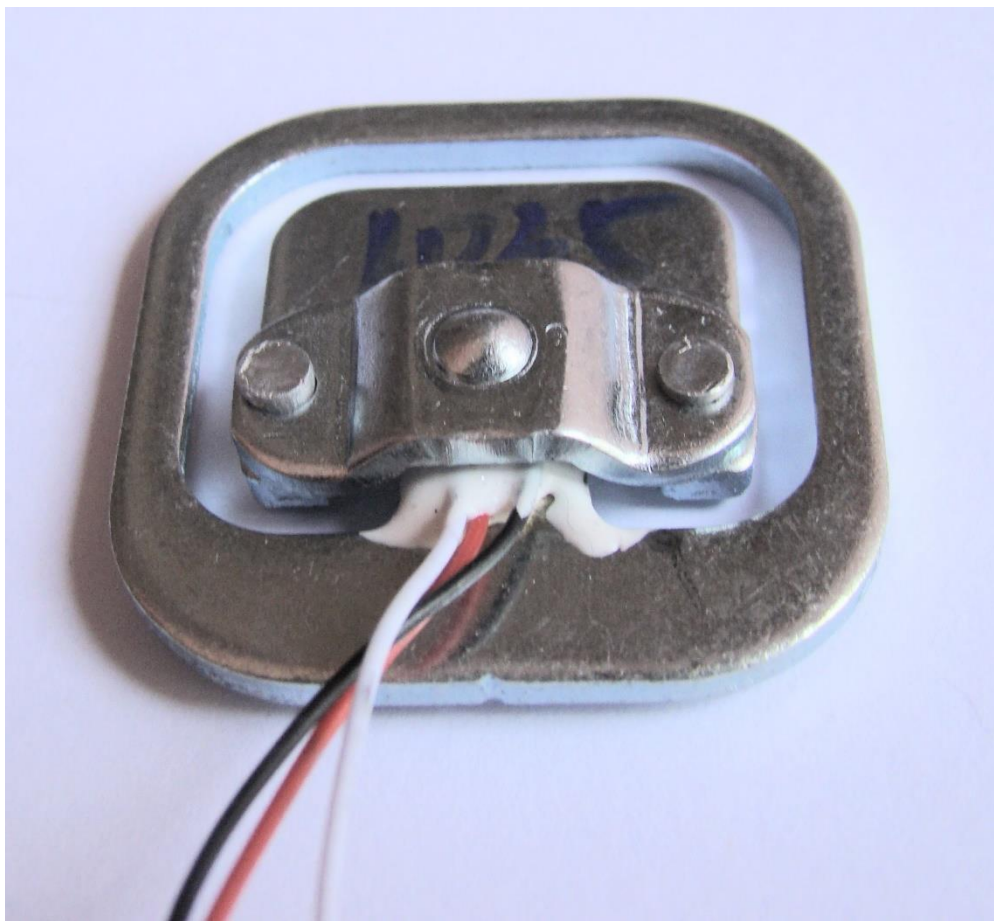
# Nakuja Internship

## Week 7 Progress Report

JEFF MBOYA

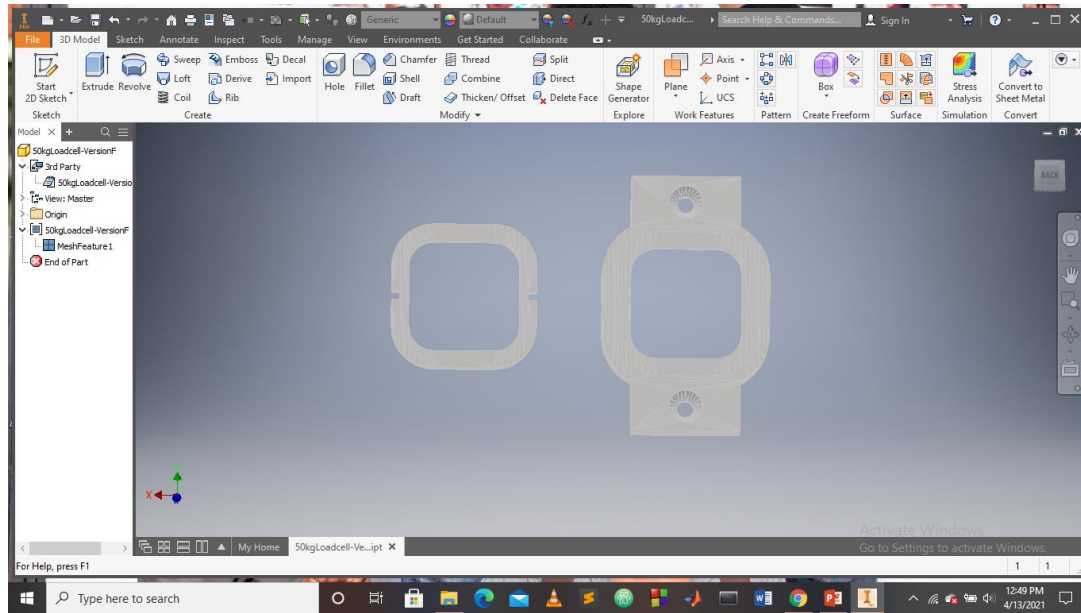
# Tasks completed last week

1. Research on better and reliable motor ignition
2. Testing nichrome wire ignition system
3. Casting propellant for 4th static fire test.
4. Conducting static firing test no. 4 (Nichrome wire to be used for ignition)
5. Acquired new state indicator LEDs for the test stand.

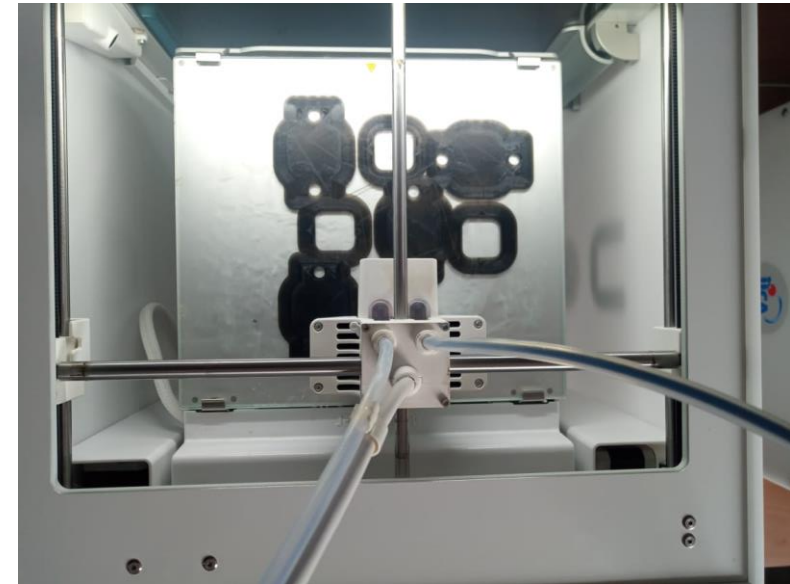


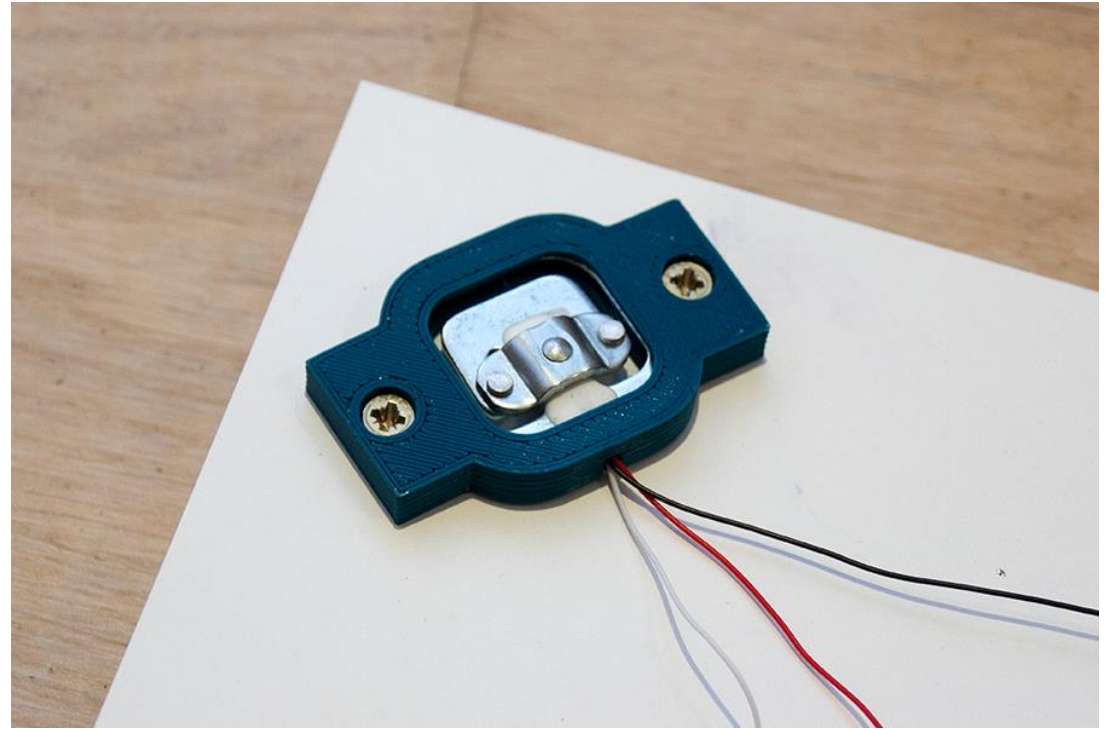
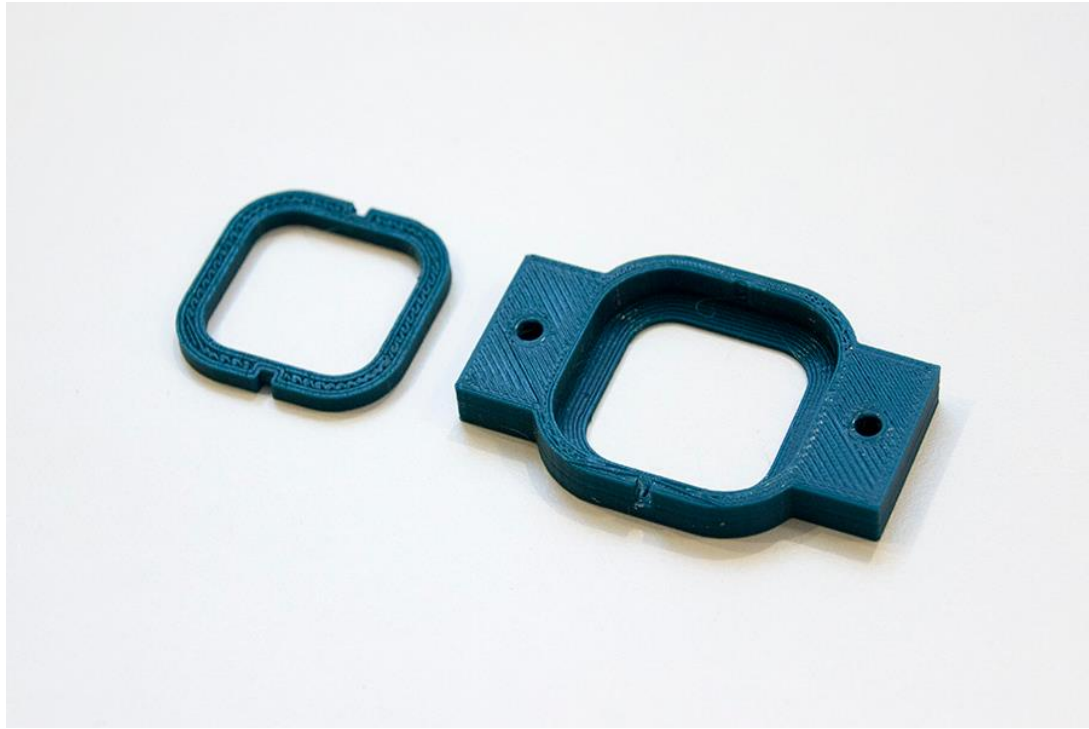
# 50kg Load cell mount

## CAD Model



## 3D printing





# Tasks to complete this week

- Design of 50kg pin load cell mounts
- 3D printing 50kg Pin Load cell mounts
- Incorporating the pin load cells into the test stand
- Propellant casting for 5<sup>th</sup> Static firing test
- Conducting 5<sup>th</sup> static firing test
- Documenting Nakuja SRM Test Stand Design and Fabrication.

# Timeline

Month	Week	Tasks
March	Week1	Design and fabrication of nozzle
	Week2	Design and fabrication of test stand
	Week3	Casting propellant
	Week4	Testing the model rocket on motor Static firing test no. 1 and no. 2 Analysis of thrust data
April	Week1	Test stand design v1.3 ( re-design using pin load cells) Casting propellant for third static fire test. Conducting static firing test no. 3 Including visual indicators (state of the test stand-armed or unarmed)
	Week2	Research on better and reliable motor ignition