

# Nakuja Internship

## Week 8 Progress Report

IAN KIBANDI

# Tasks completed last week

- Portable power for raspberry pi
- Strengthened the launch pad
- Test launch
- Logged data with GPS

# GPS Data logging

- Logged data to file for easy analysis,plotting.
- Code(github)



# Launch Test

- Launch Pad withstood thrust
- Rubber bands caused friction with the launch rod
- Payload not properly balanced
- Look into a longer launch rod

# Integrating pi to avionics bay

- 3.7V battery + powerboost + usb cable
- The usb port has a better protection circuit than GPIO

# Tasks to complete this week

- Make the necessary changes to the launch pad
- Continue working with GPS – test, analysis.
- Assist the avionics team.
- Integrate the picamera with the rocket

# 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
April	<b>Week1</b>	<b>Avionics bay development</b>
	Week2	Payload Camera research and implementation
	Week3	GPS testing
	Week4	Test and Launch of N-1 rocket