

**BD-CanSat**  
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**The 6th**  
**Cansat Leader Training Program**

Hokkaido, Japan

August 24- Sept 4, 2015



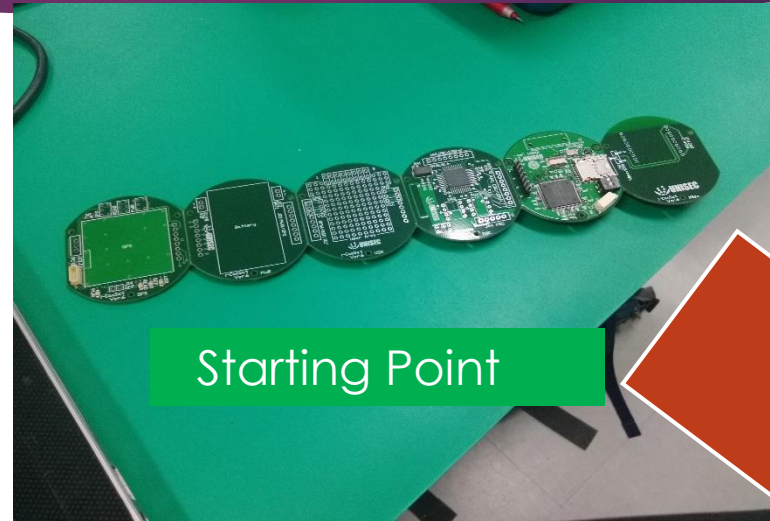
## What Is CanSat

CanSat is a simulation of a real satellite which offer a unique opportunity for one to have a first satellite experience of a real space project. It is a combination of the complex world of satellite design into a small and easy design, integrated within the volume and shape of a soft drink can. The challenge for the Cansat is to fit all the major subsystems found in a satellite, such as power, sensors and a communication system, into this minimal volume. The CanSat is then launched to an altitude of a few hundred metres by a rocket or dropped from a platform or captive balloon and its mission begins: to carry out a scientific experiment and achieve a safe landing.

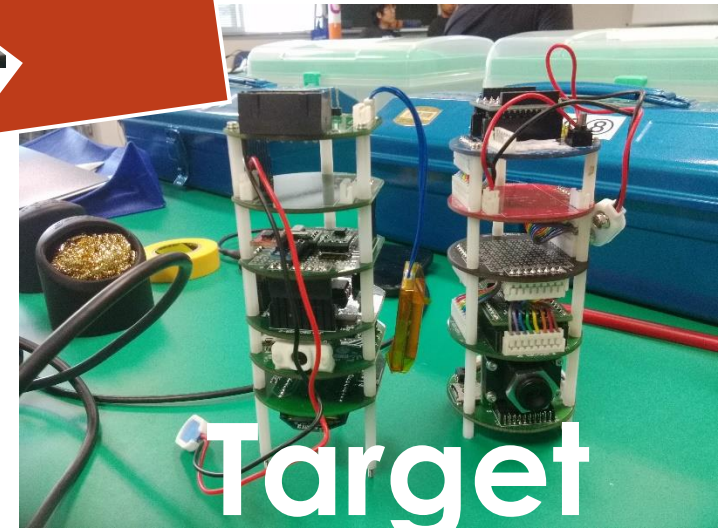
# Mission 1: Mounting Parts & Interfaces for each Board

## 1<sup>st</sup> Day: Got 6 circular board

1. GPS board for GPS, Switches & Indicators
2. Power board for on board battery
3. User board for sensors. Actuators
4. On board computer board for on board computer & memory
5. A complete camera board for mounting camera called CanCam where some electronics part already mounted
6. Xbee board for communication



Starting Point



Target

# CLTP6: Day 1



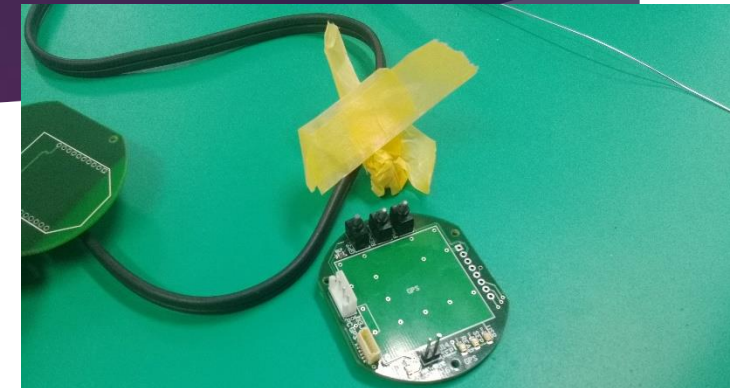
SELF Introduction



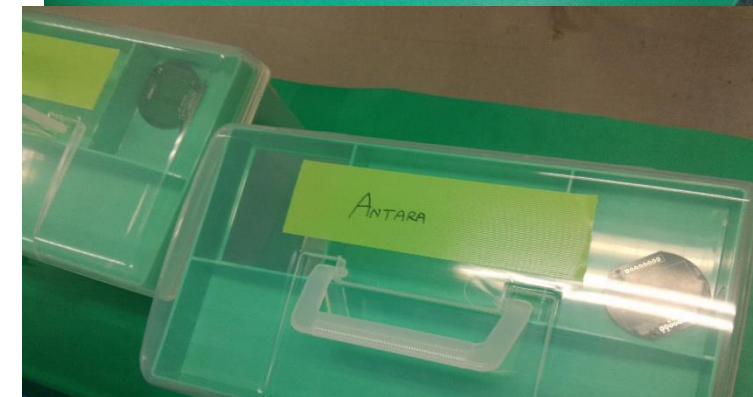
Invitation Lunch



Learn Soldering

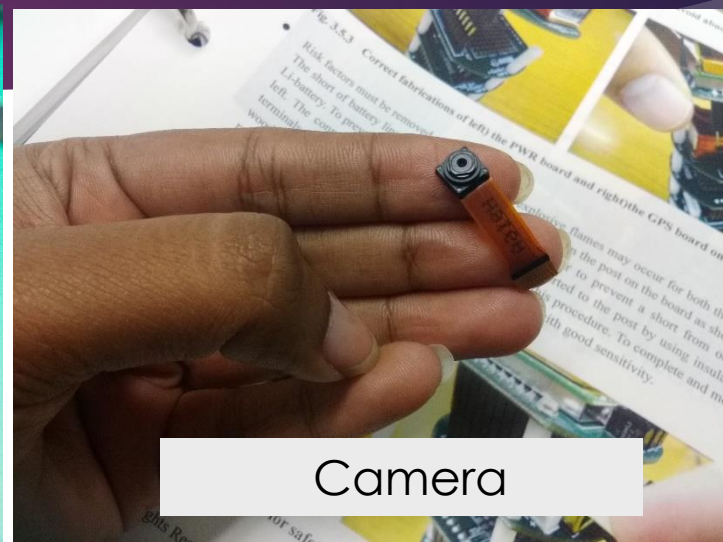
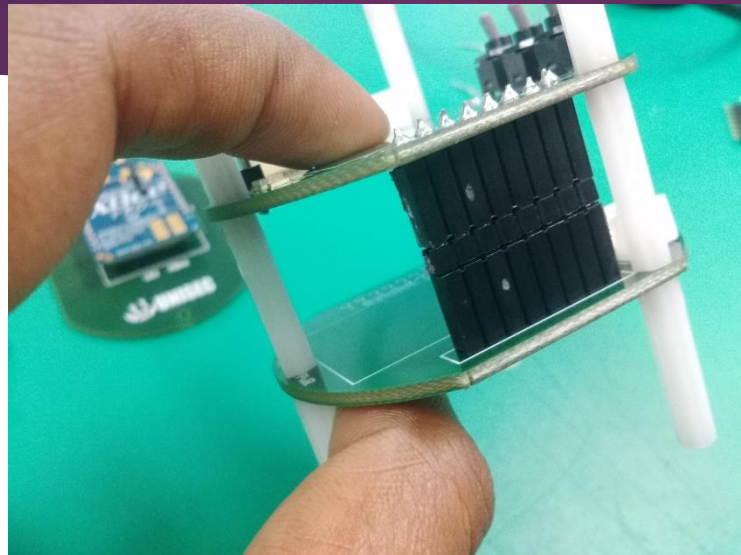


Soldered Switch & connector on GPS Board



Got 1 box for keeping my equipment

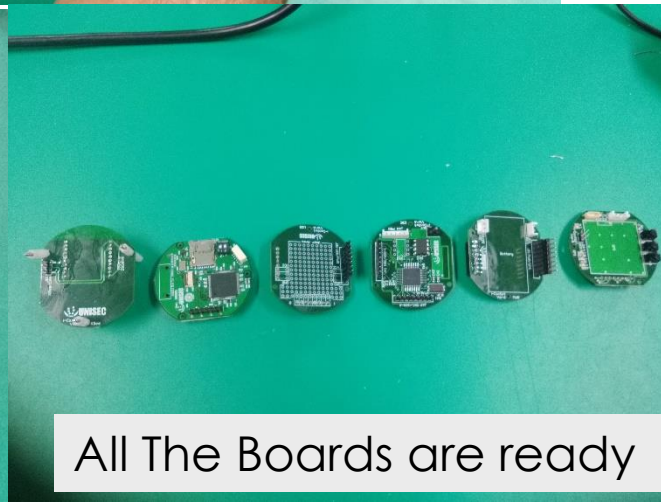
# CLTP6: Day 2



Camera



Done with Camera mount



All The Boards are ready

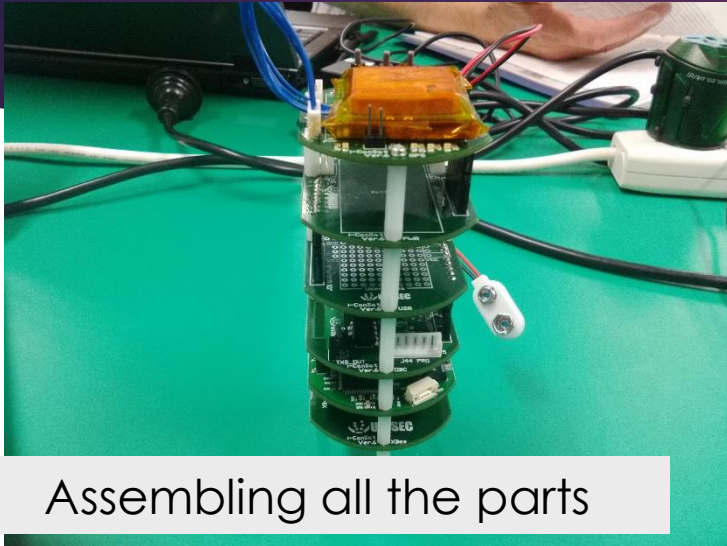


Start Assembling

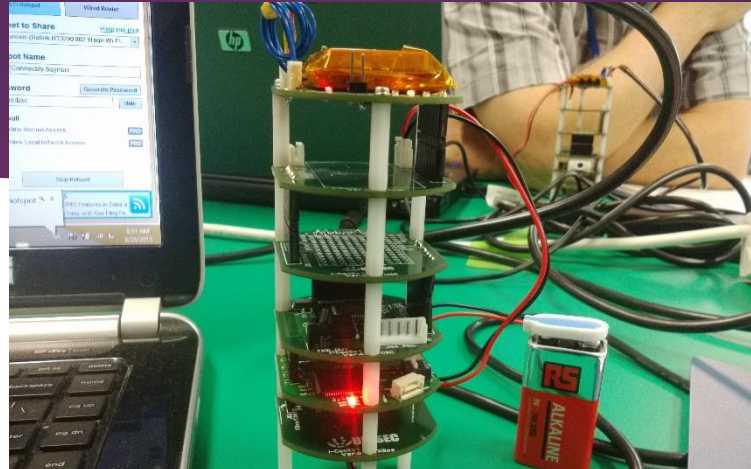


**MISSION: 2**  
**SOFTWARE INSTALLATION**  
**&**  
**GROUND STATION**

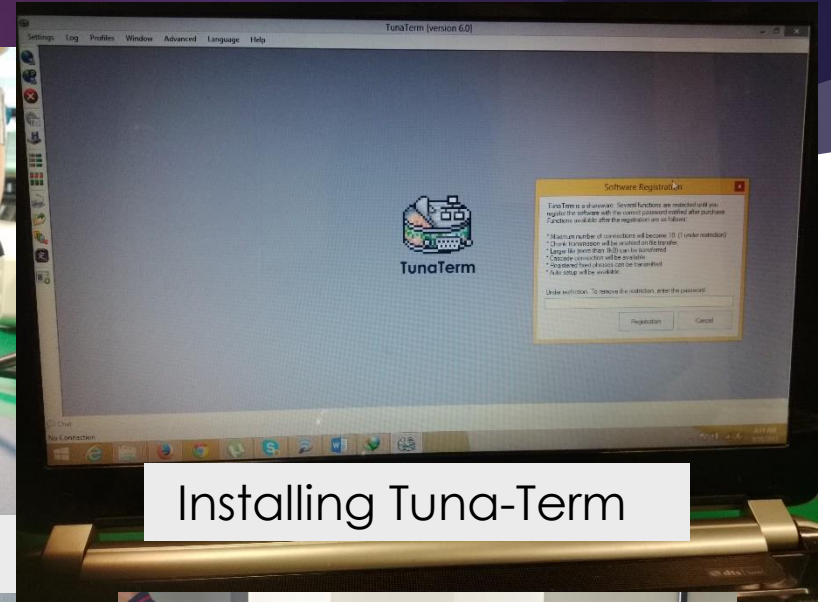
# CLTP6: Day 3



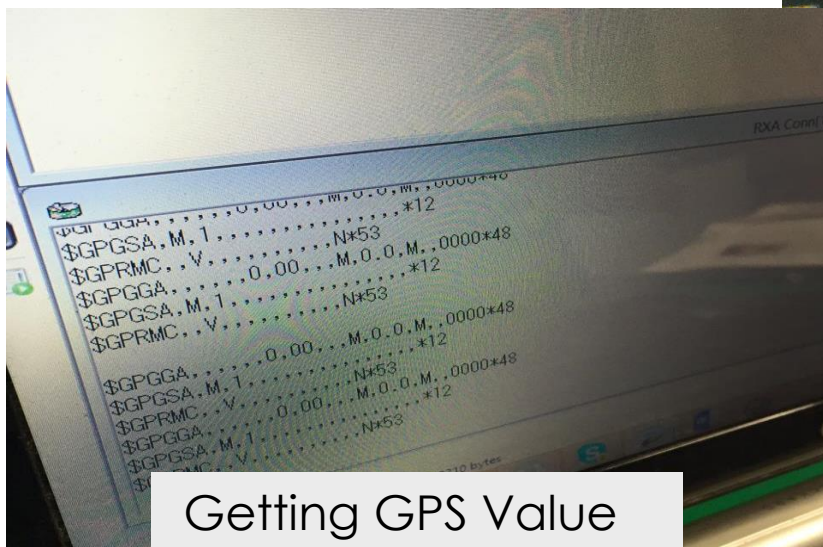
Assembling all the parts



Setting GPS & Battery



Installing Tuna-Term




Getting GPS Value



Setting of Ground Station



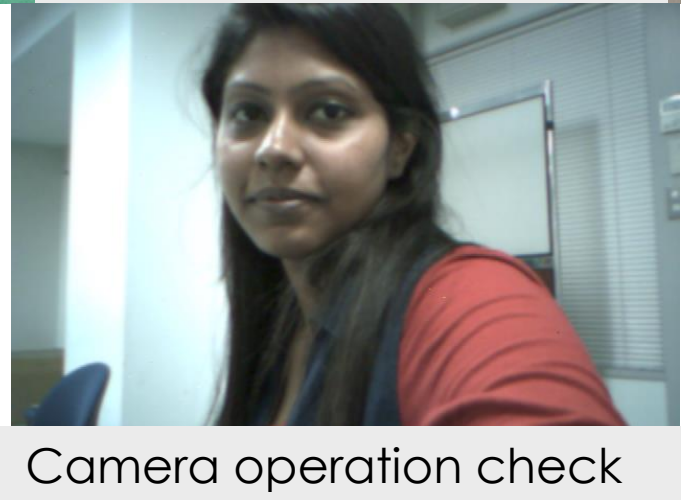
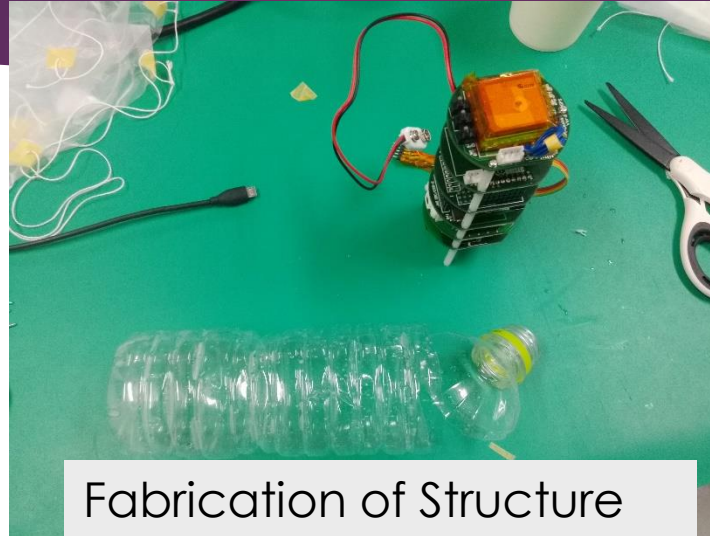
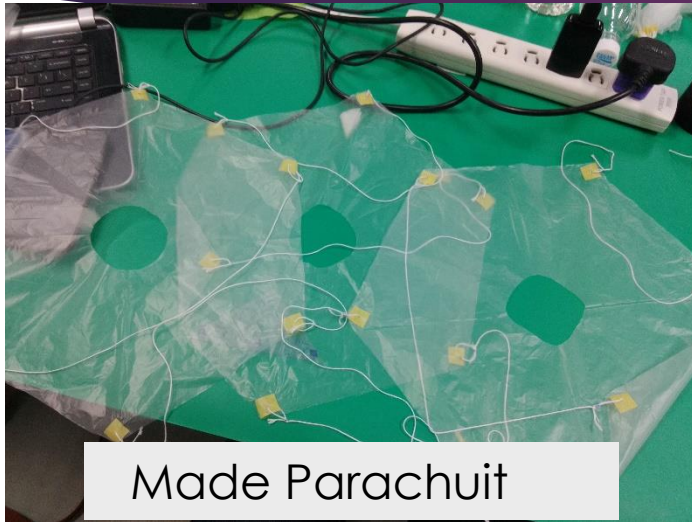
Start Programming



**MISSION 3**  
**PARACHUTE MAKING**  
**&**  
**DROP TEST**



# CLTP6: Day 4



# DROP Test on Day 4



From 3<sup>rd</sup> Floor

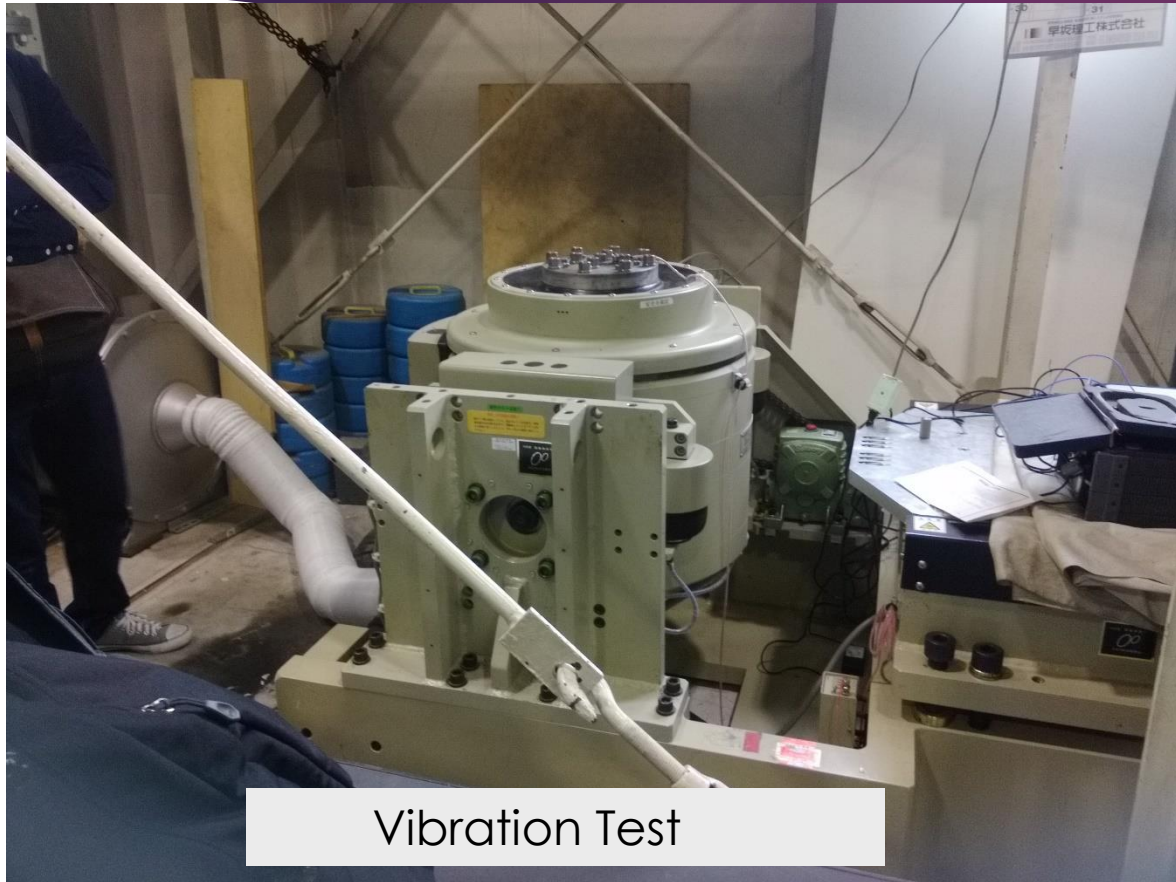


Picture taken by CanCAM during Drop Test

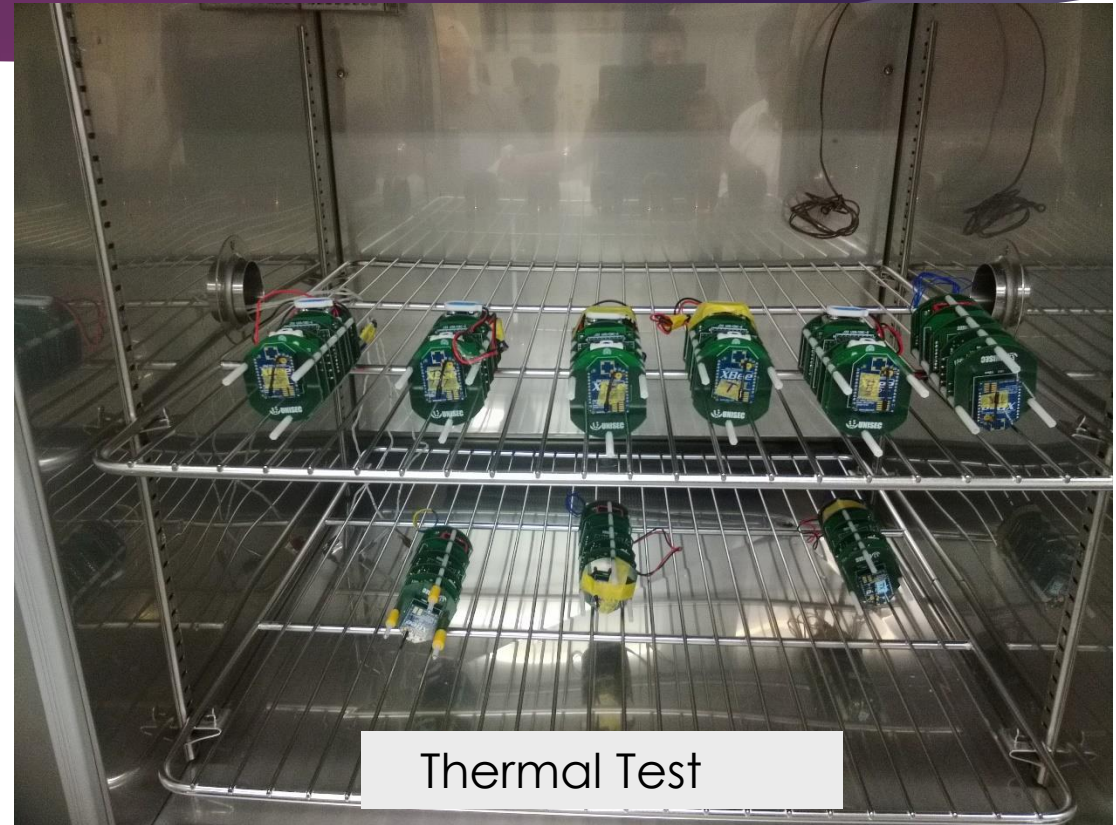


**MISSION 4**  
**VIBRATION TEST**  
**&**  
**THERMAL TEST**

# CLTP6: Day 5

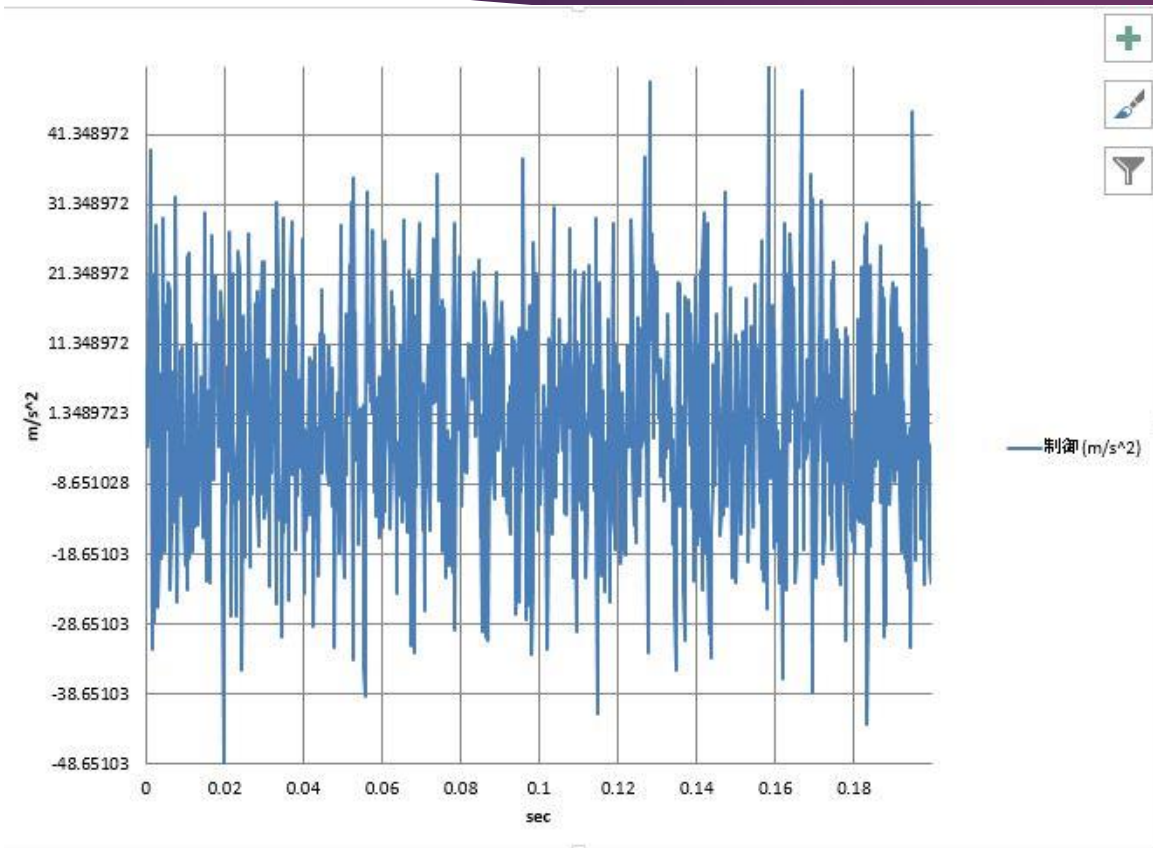


Vibration Test

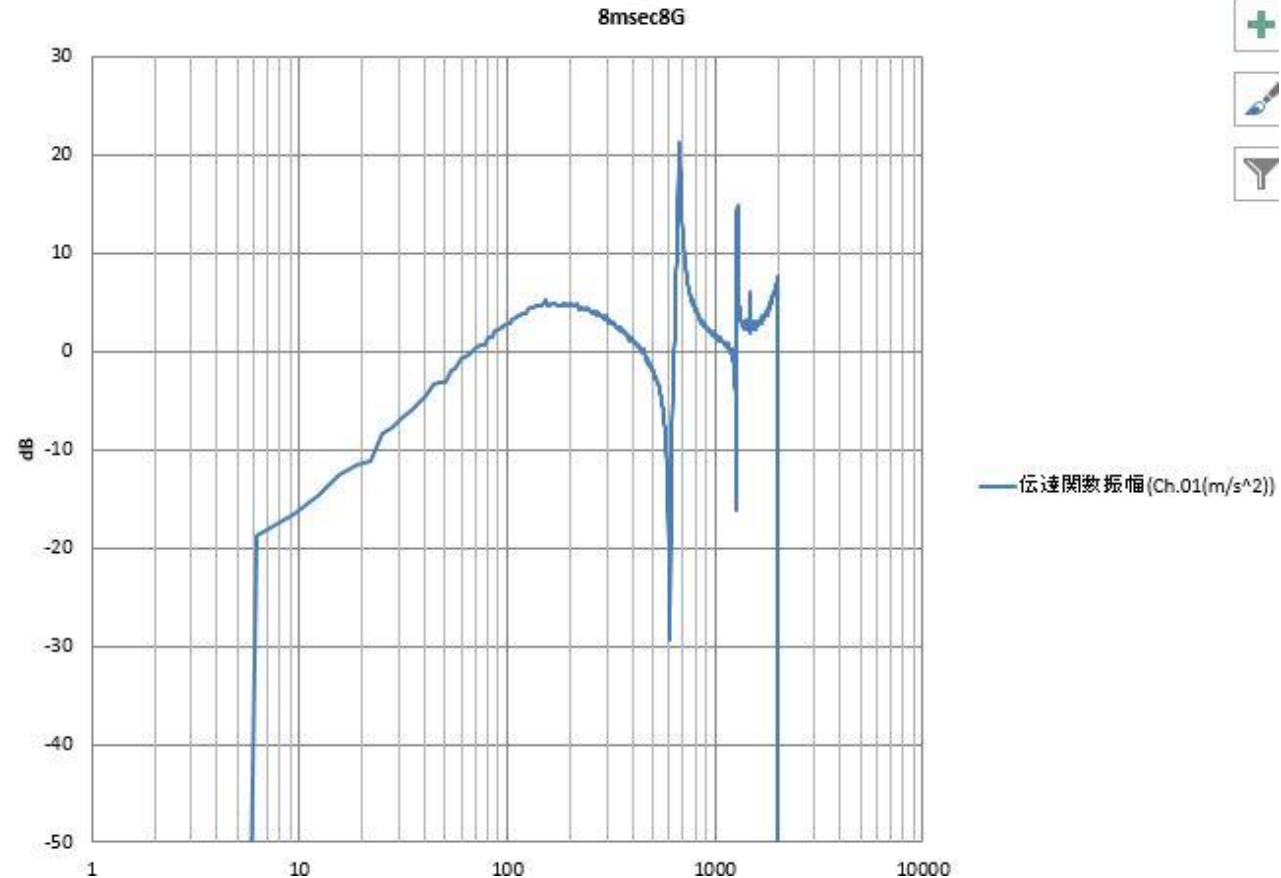


Thermal Test

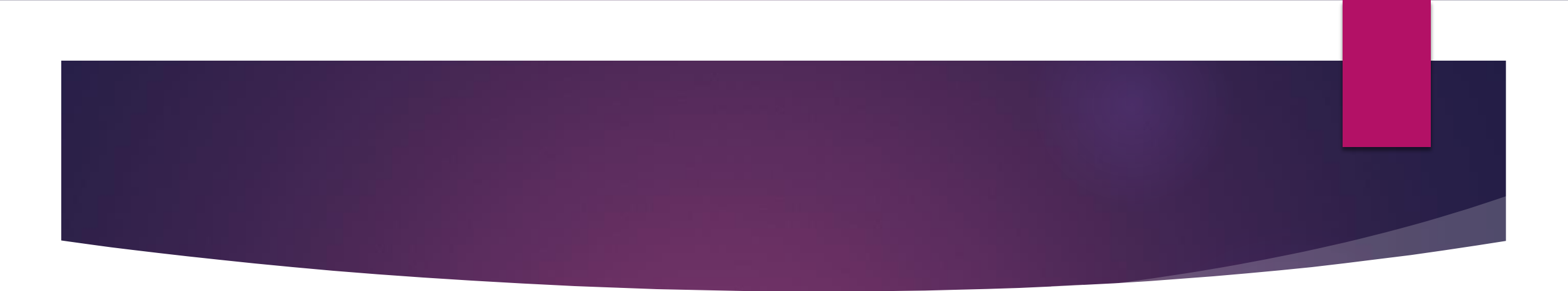
# Vibration Test Graph



Random Vibration\_History of acceleration



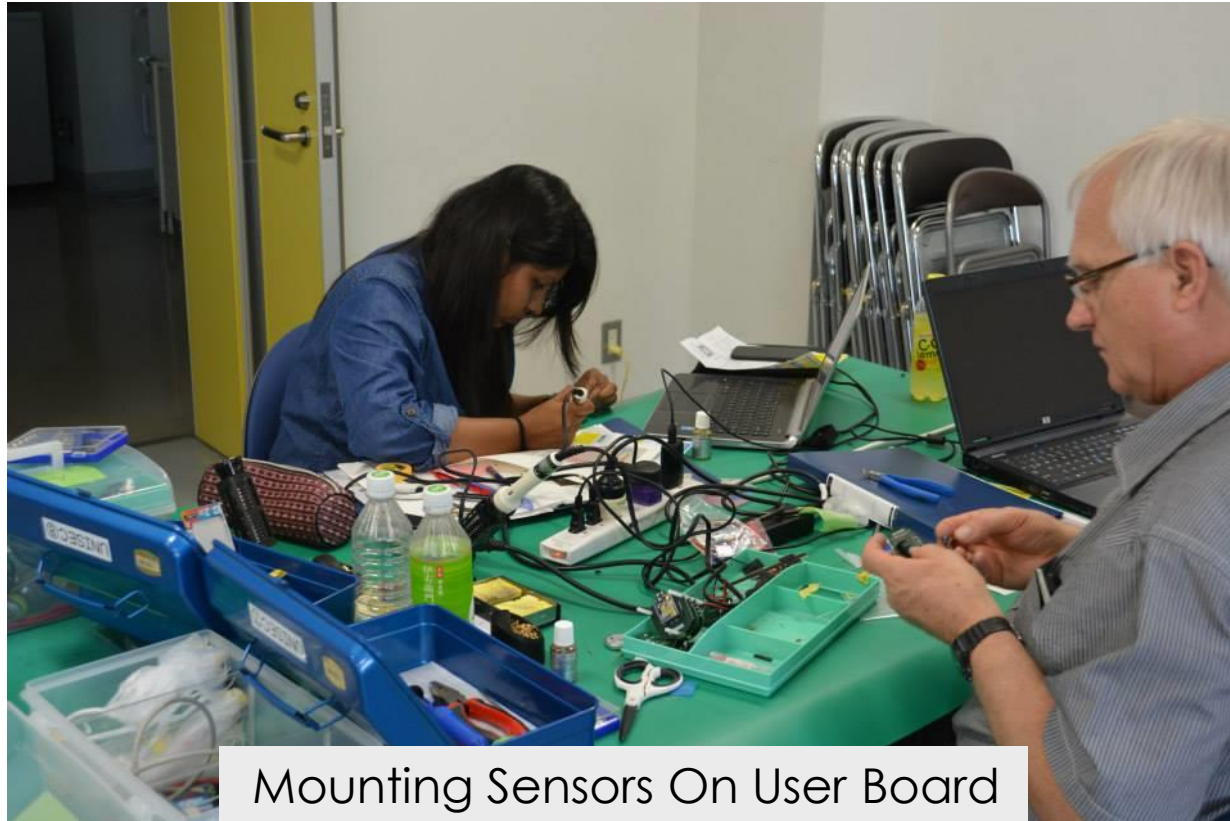
1<sup>st</sup> shock\_Transfer Function



# **MISSION 5**

## **SENSORS**

# CLTP6 : Day 6

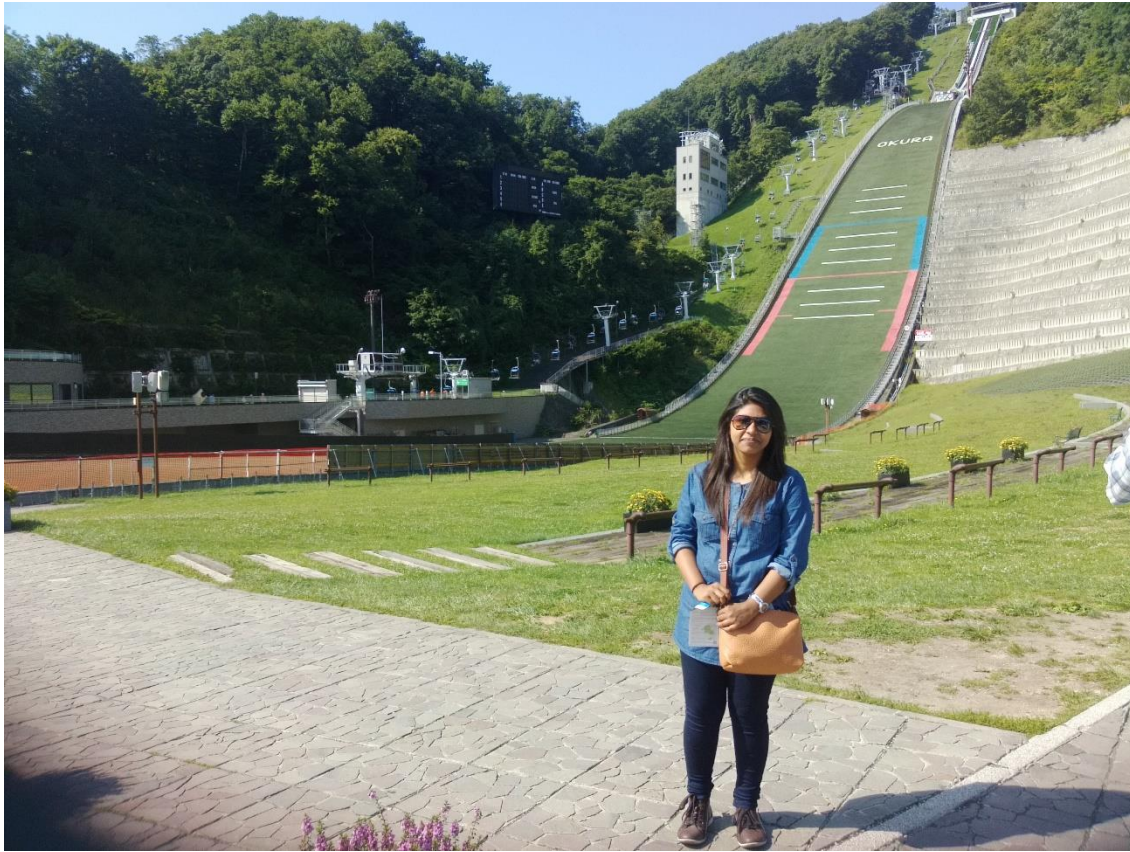


Mounting Sensors On User Board



Mounting Sensors On User Board

# CLTP6: Day 7 : Refreshment Day

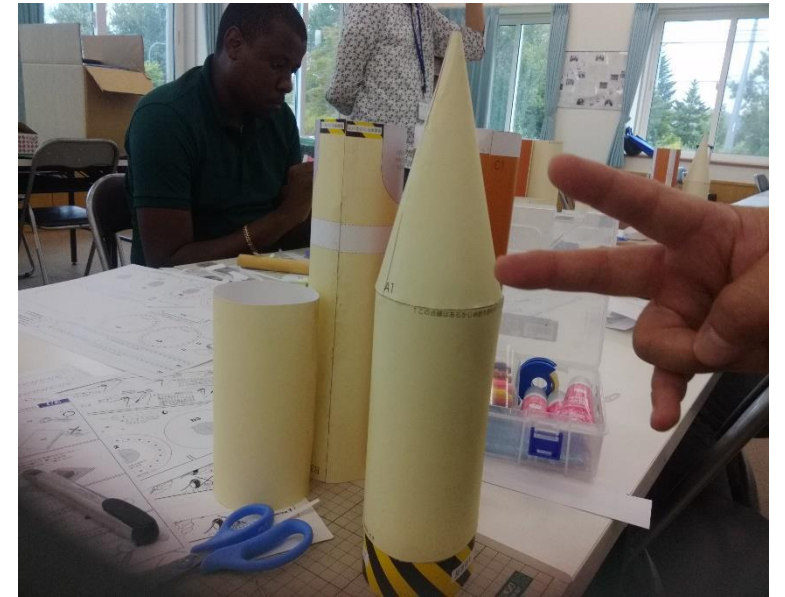






**MISSION 6**  
**PAPER ROCKET**

# CLTP6: Day 8





**MISSION 7**  
**LAUNCHING**

# CLTP 6: DAY 9: Launching Day 1



# Successful & Perfect landing





# CLTP 6: DAY 10: Launch Day 2



# CLTP 6: DAY 11: Launch Day 3





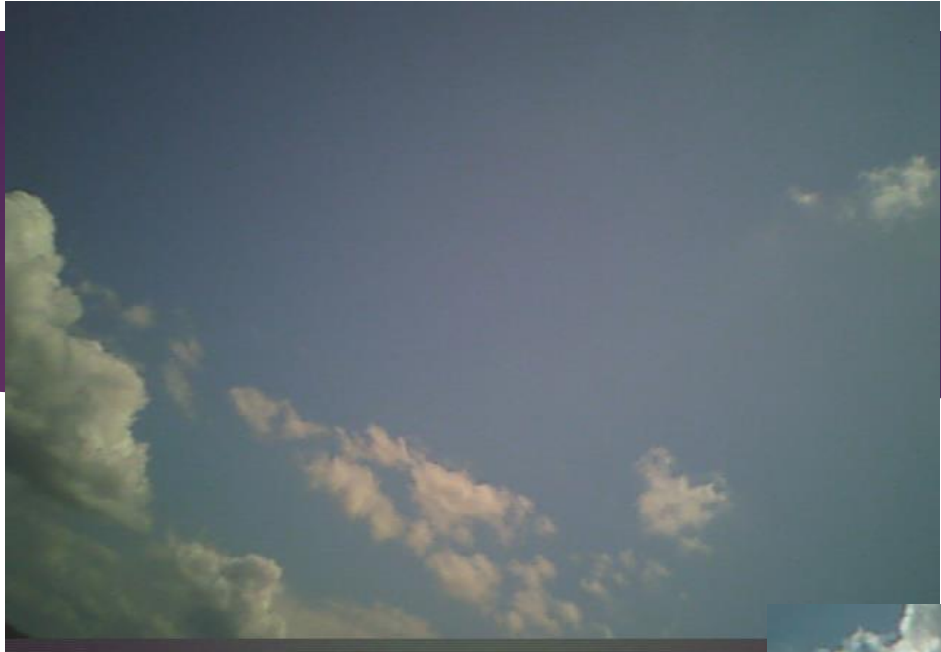


# **MISSION 8**

## **GETTING DATA**

# Image From The CanCam :1<sup>st</sup> Day Launch



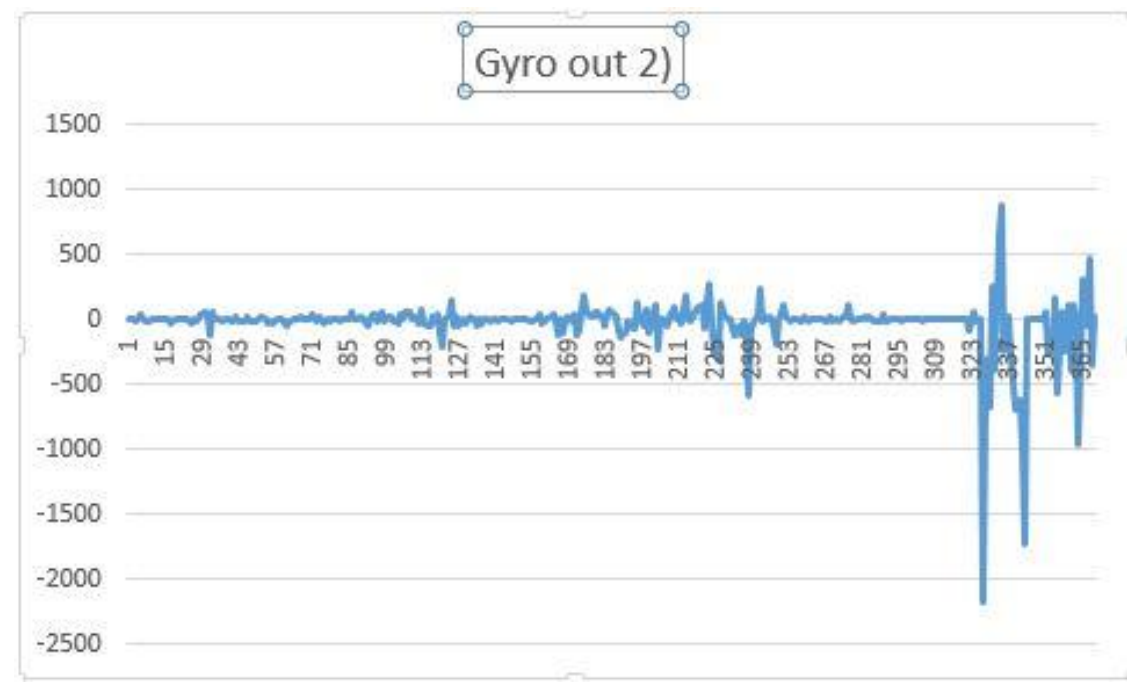
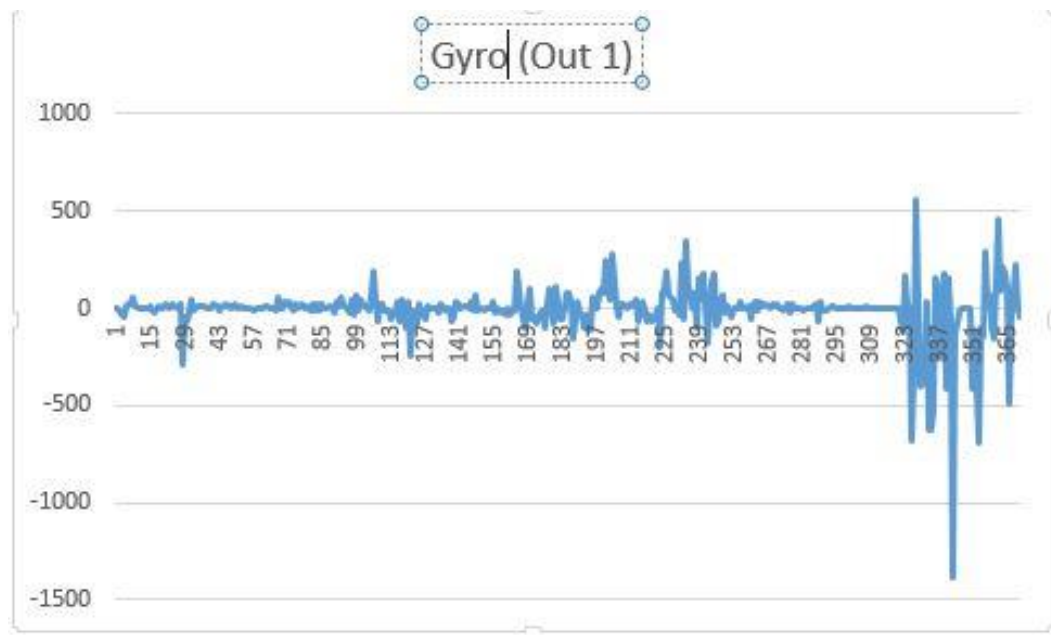


# Image From The CanCam :3<sup>rd</sup> Day Launch

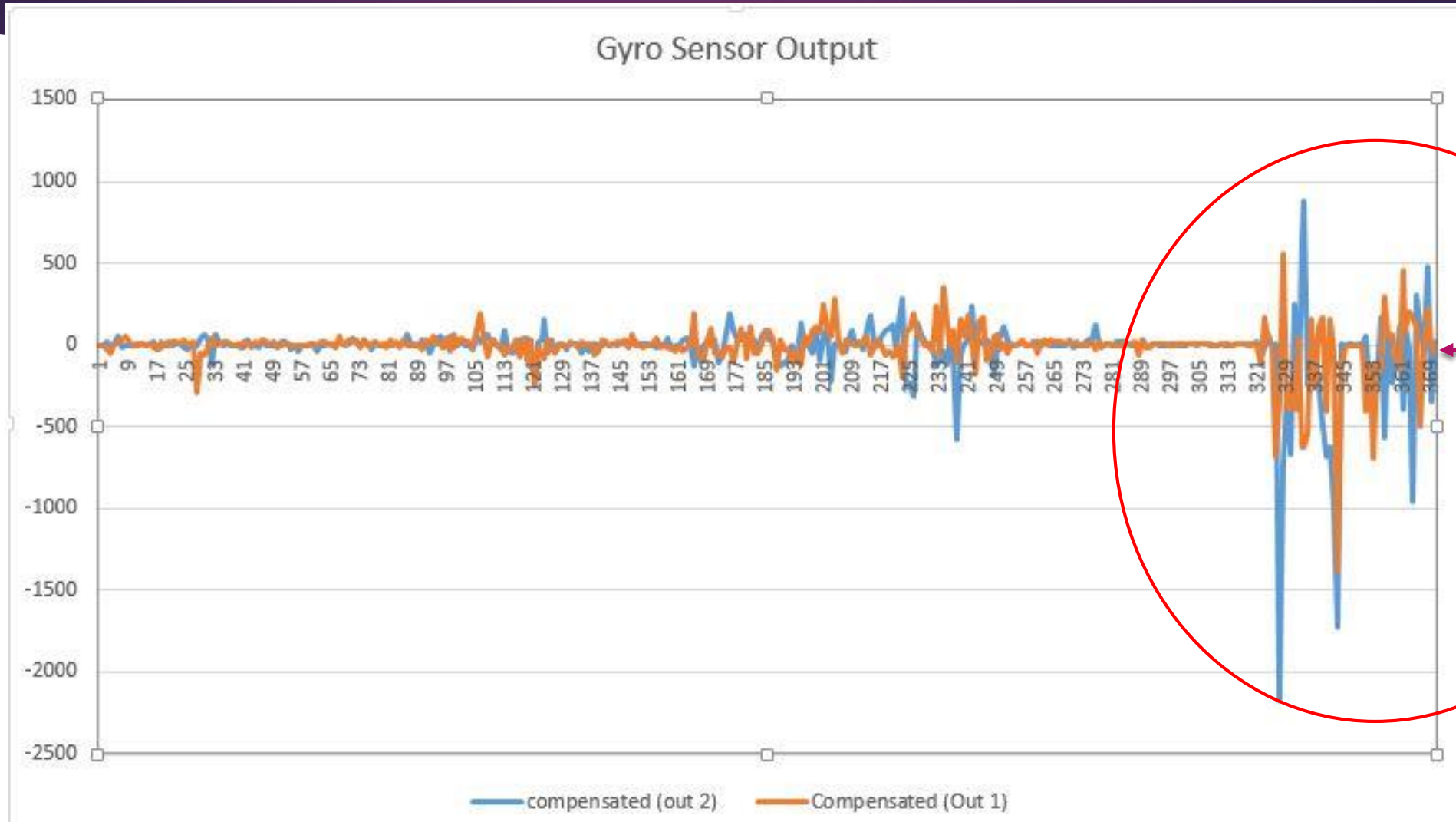


# GPS





# GYRO Value



Fall

**Mission Completed successfully here**

**My next mission will be in Bangladesh**





# Thank You

