

# CLTP7 FINAL REPORT

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Dominican Republic  
2016/10/01



Hokkaido, Japan, october  
01, 2016



# Goals

- To assemble a Cansat.
- Make a parachute.
- Built a paper rocket.
- To launch satisfactorily two times the cansat.



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# CANSAT



- Soldering process.
- Joining devices.
- Telecommunication system programming.
- Microprocessor programming.
- Assemble boards.

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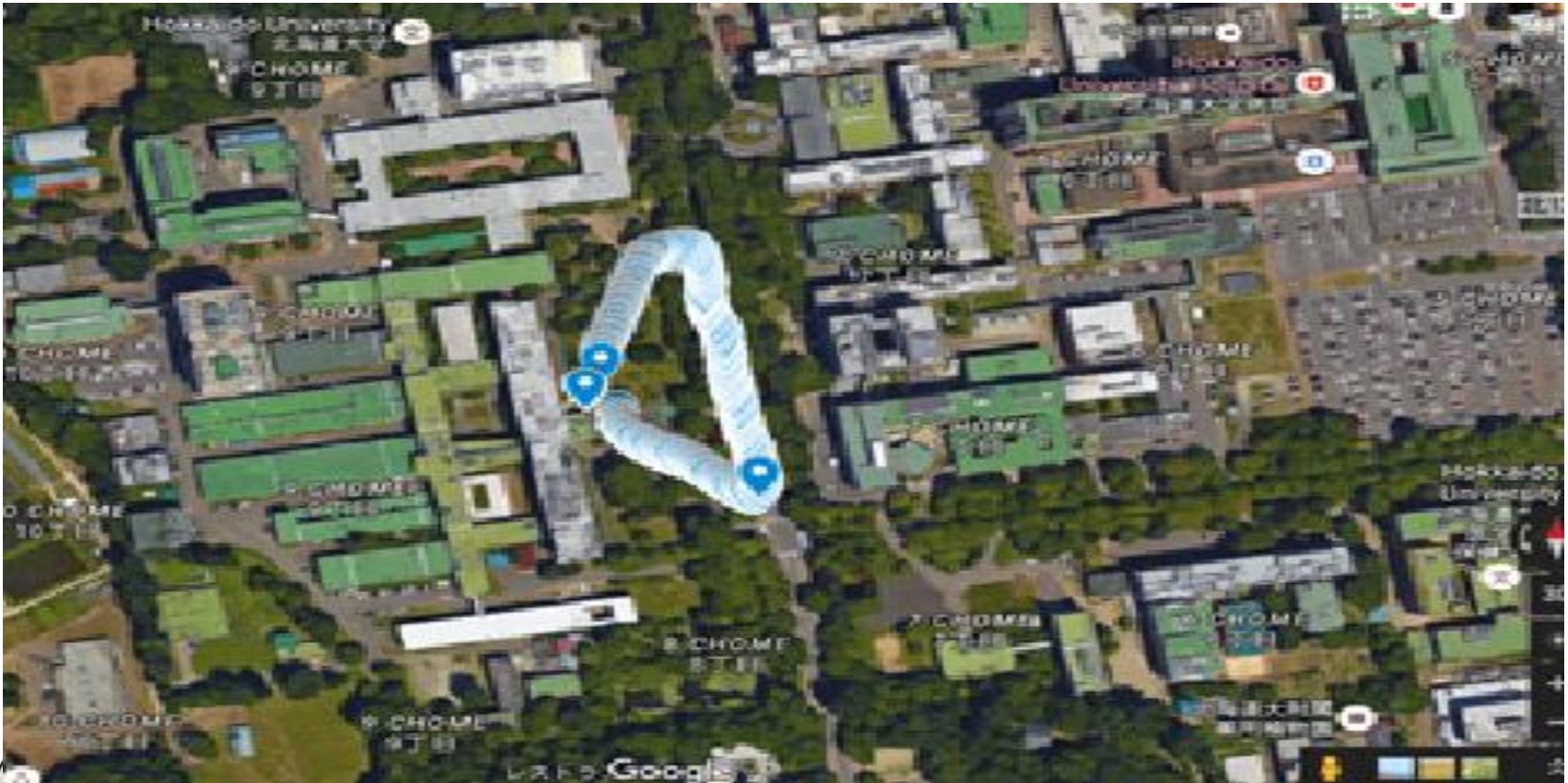
# Programming PiC and testing Xbee



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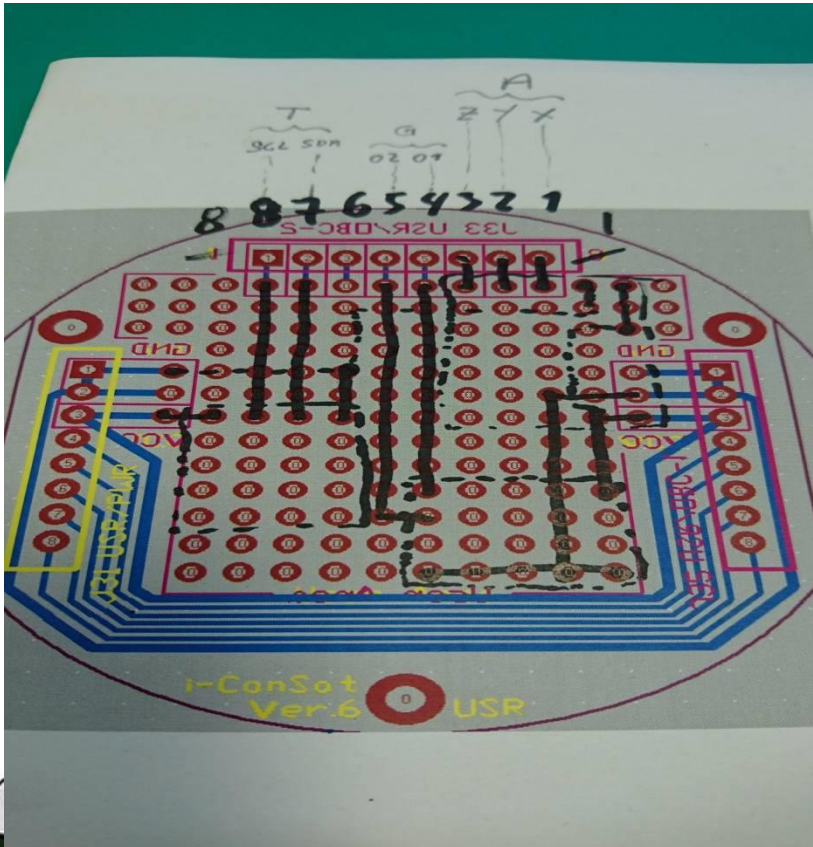
# Testing GPS information



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# User board(Sensors)



- I made a mistake.
- I exchanged the connection between pin 1 and 8.
- Lost all day work.
- At the beginning, I had 3 sensor, but for this problem I had to use only two.



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# What I learned for this mistake?

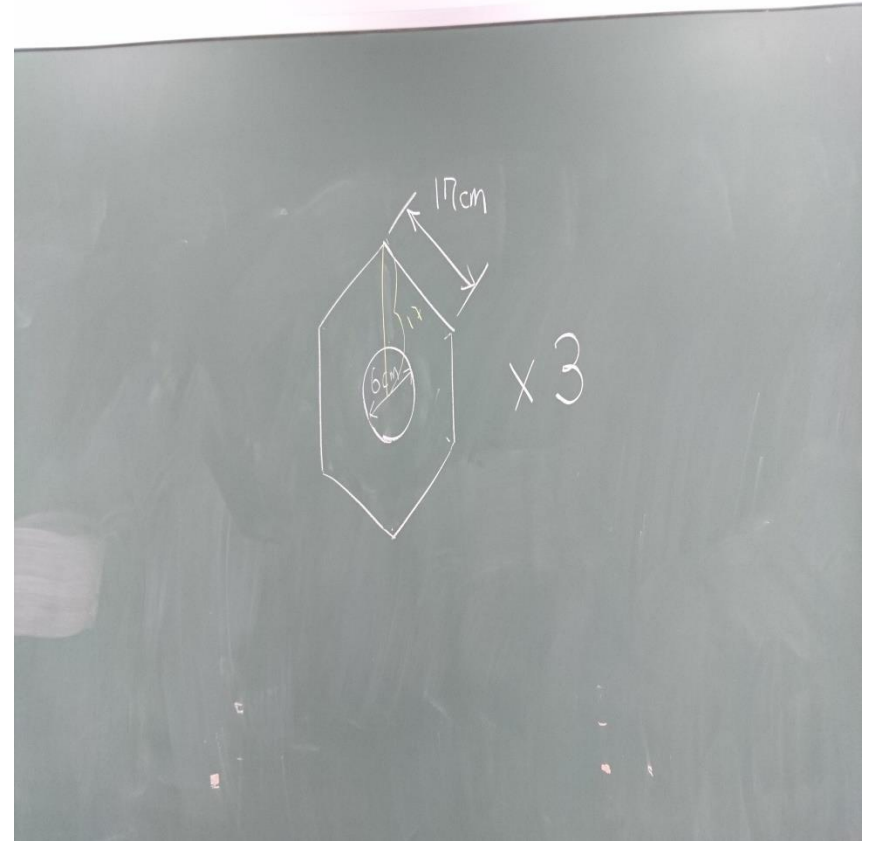
- We never skip the procedures.
- The manual explain very well how to make the connections, and I not read it.
- The things we should do it one by one and verifying inmediately.



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# Make the parachute



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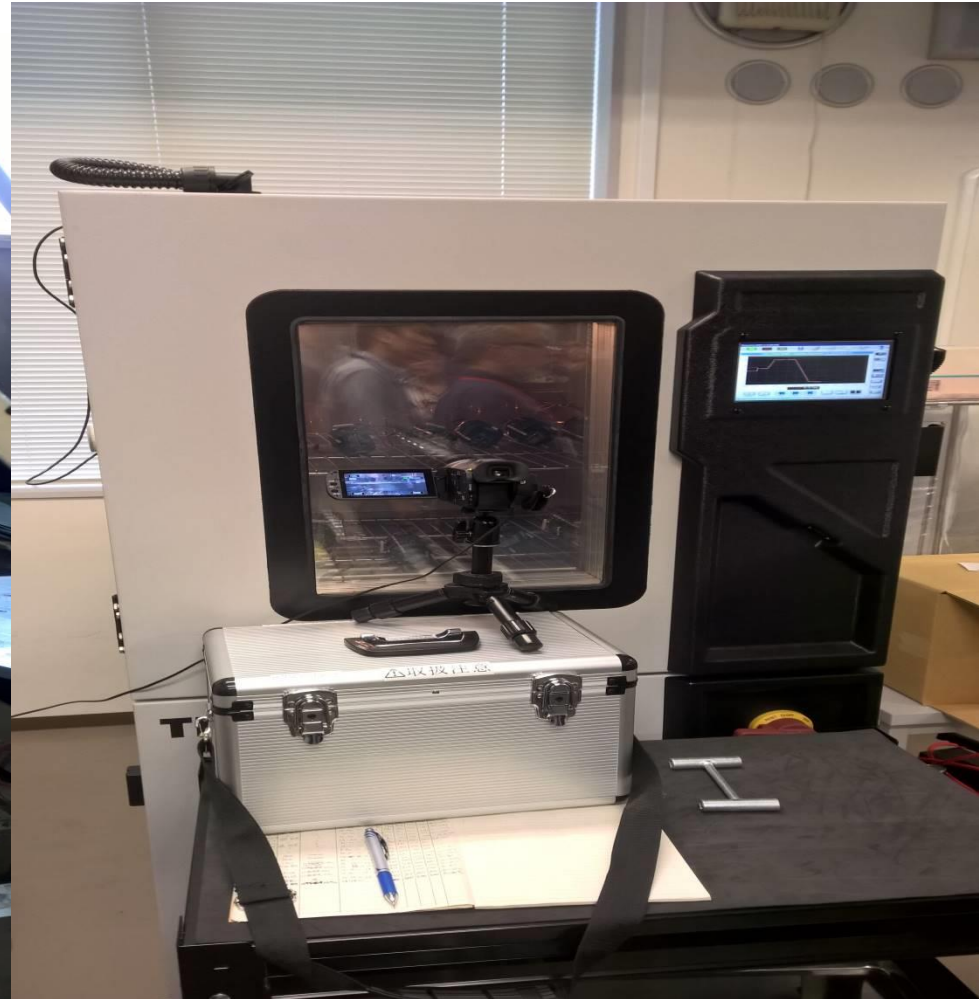


# Parachute test(drop test)



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# Vibration and Thermal Tests



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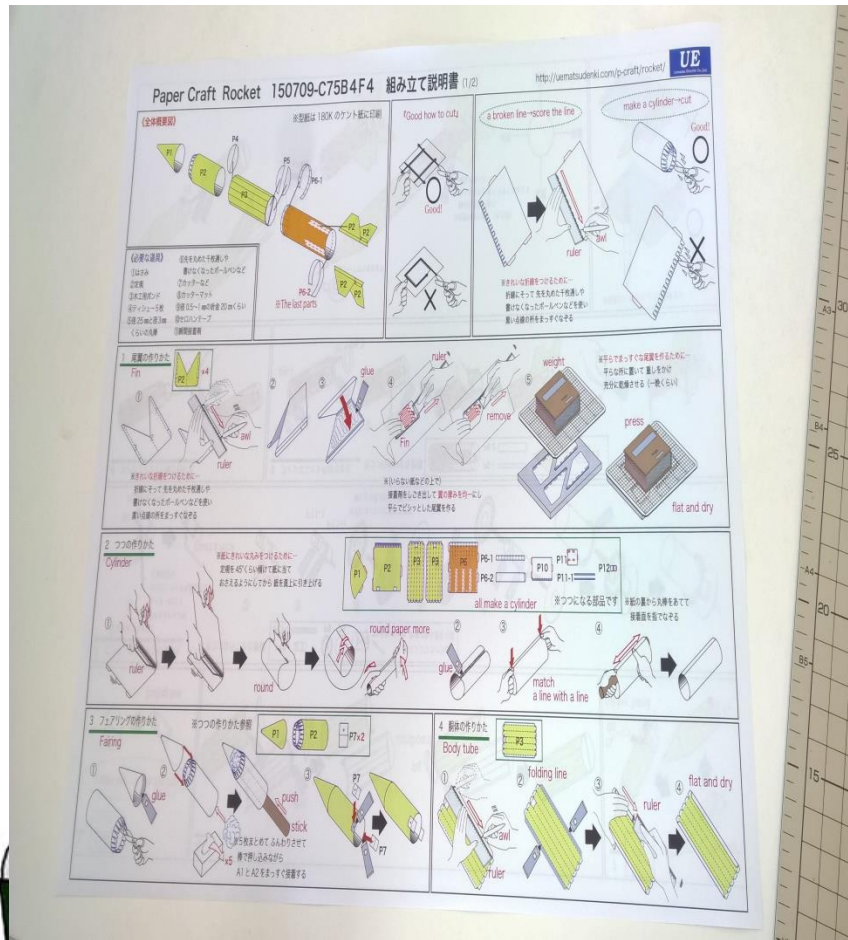
# Resistance toolbox test



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# Making the paper Rocket



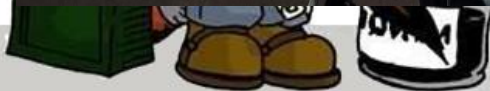
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# The most anticipated moment...



- All we expected on launch day.
- The most important is that we were ready.
- We finished all task(cansat, parachute and paper rocket).



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# Data collected in the launches

- Image.
- Temperature.
- GPS.
- Accelerometers.



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# Image first launch



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# Image first launch



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# Image Second launch

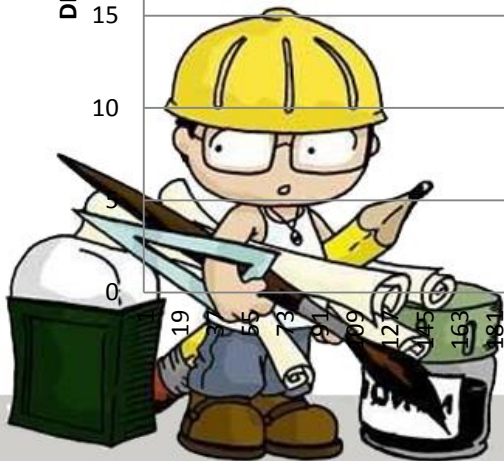
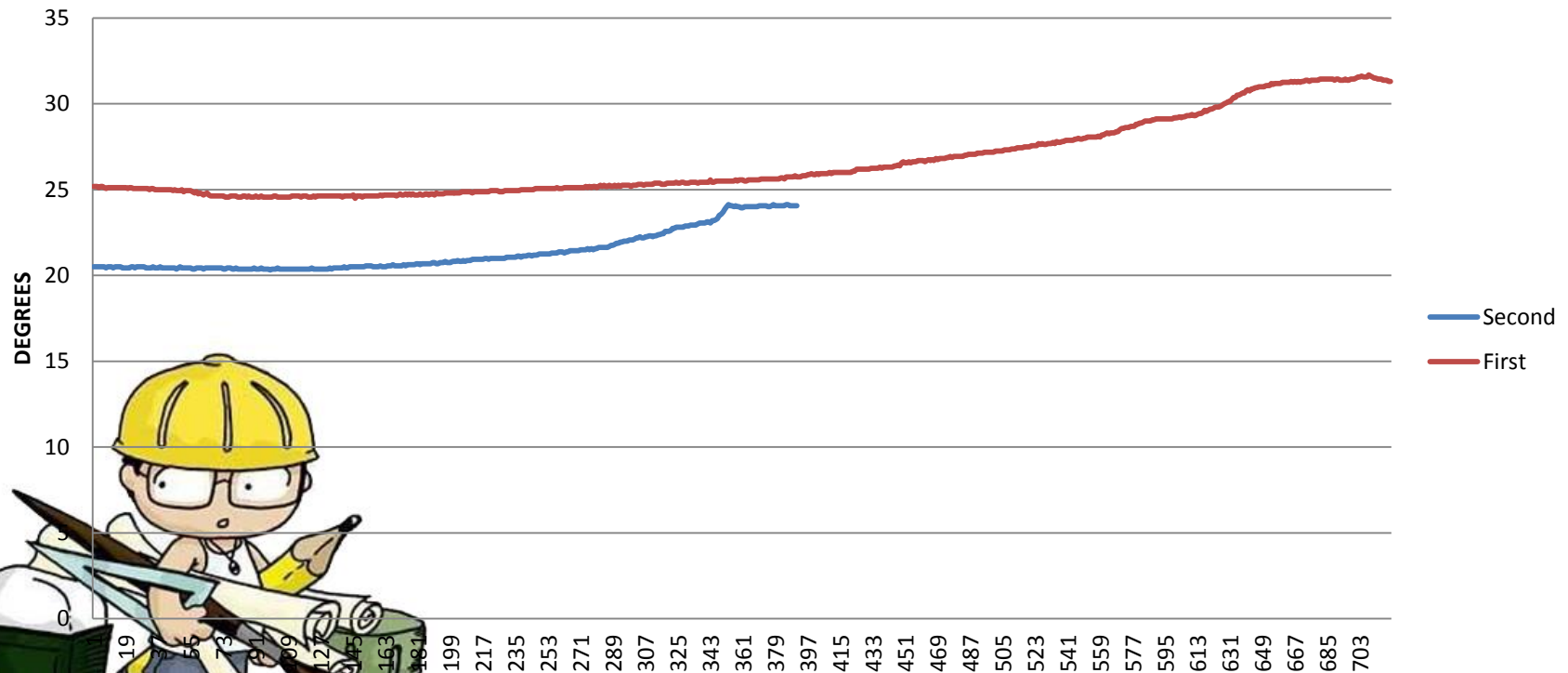


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# Temperature

## TEMPERATURE (two launches)



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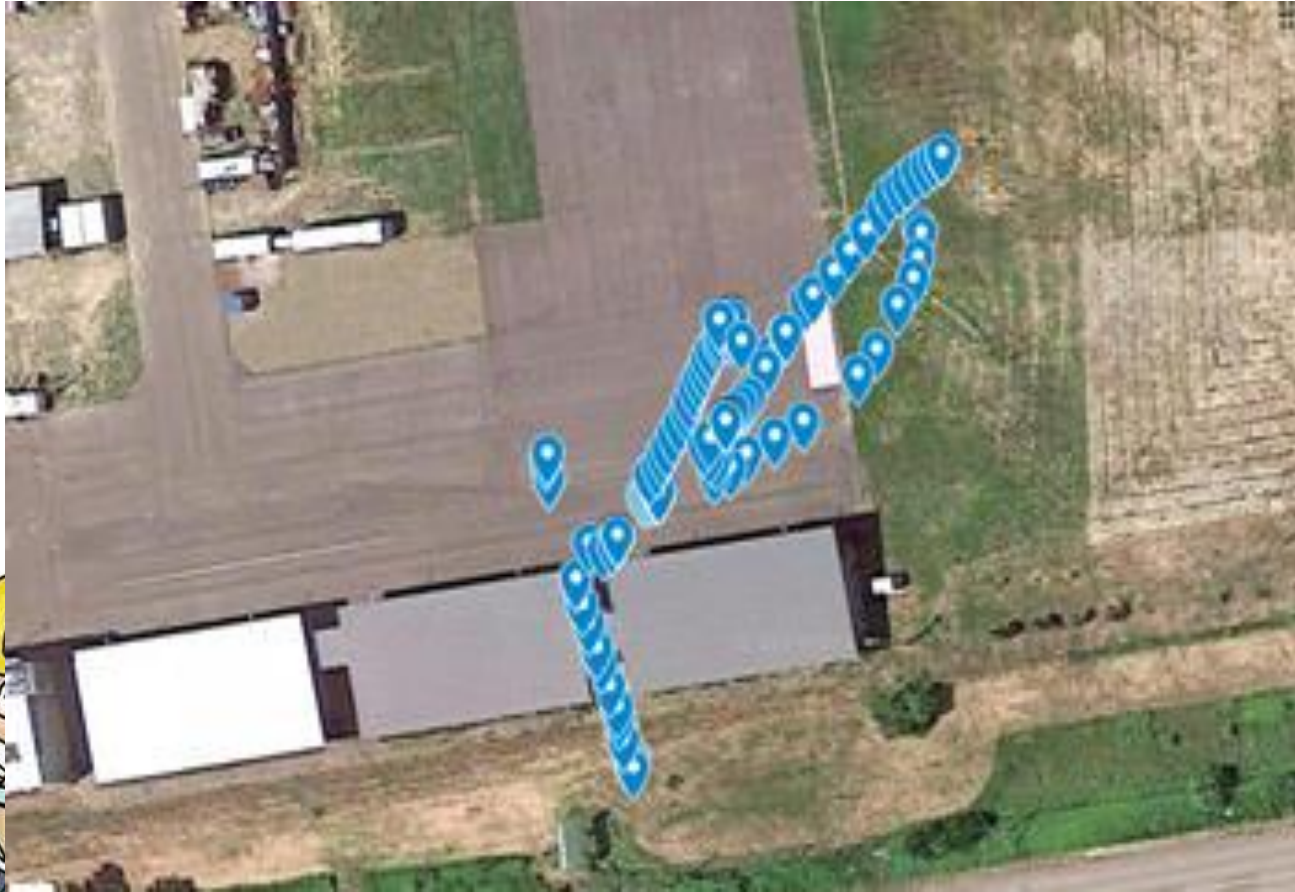
# GSP first Launch



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# GSP Second Launch

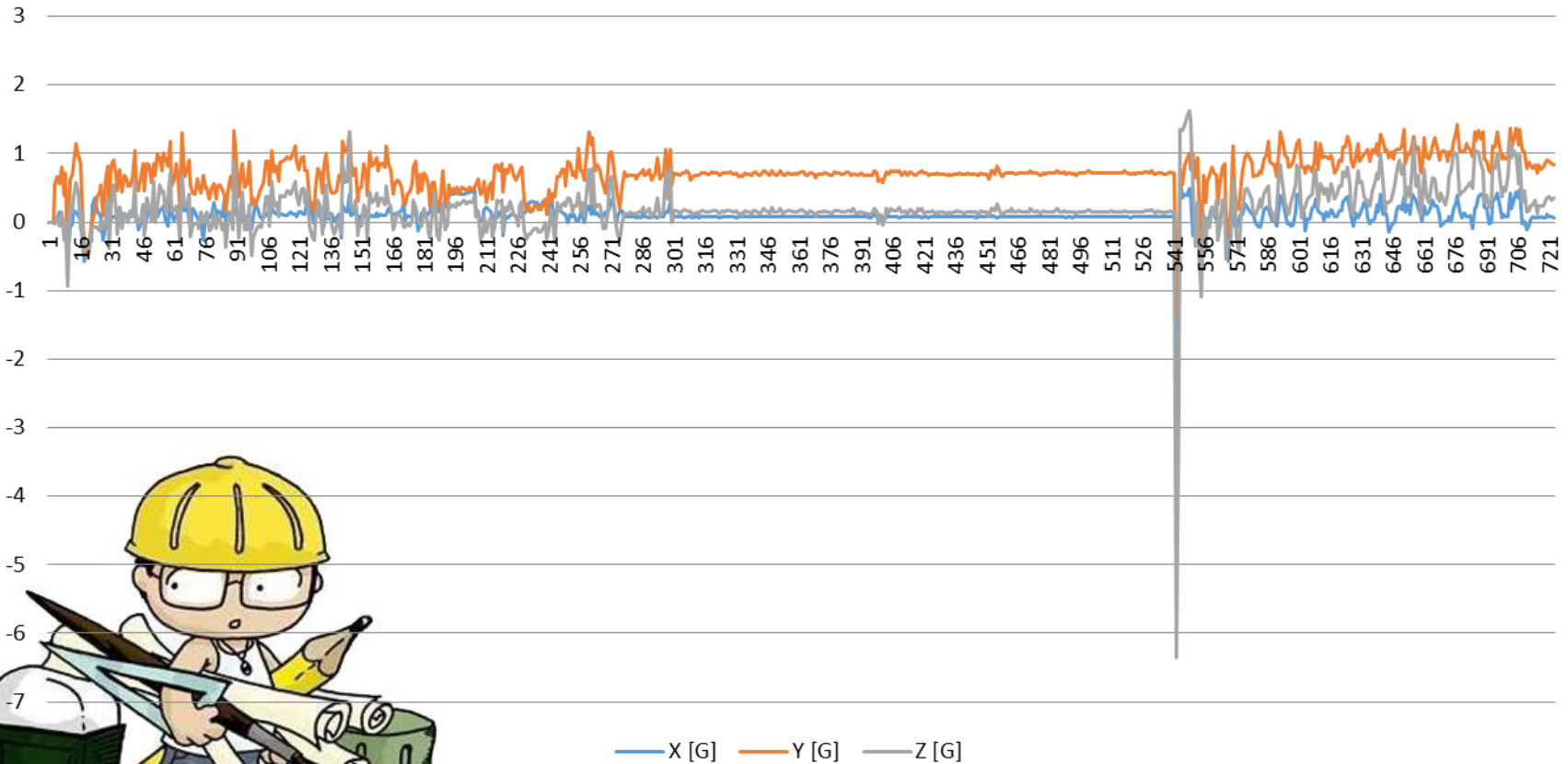


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# Accelerometer(First launch)

## ACCELEROMETER

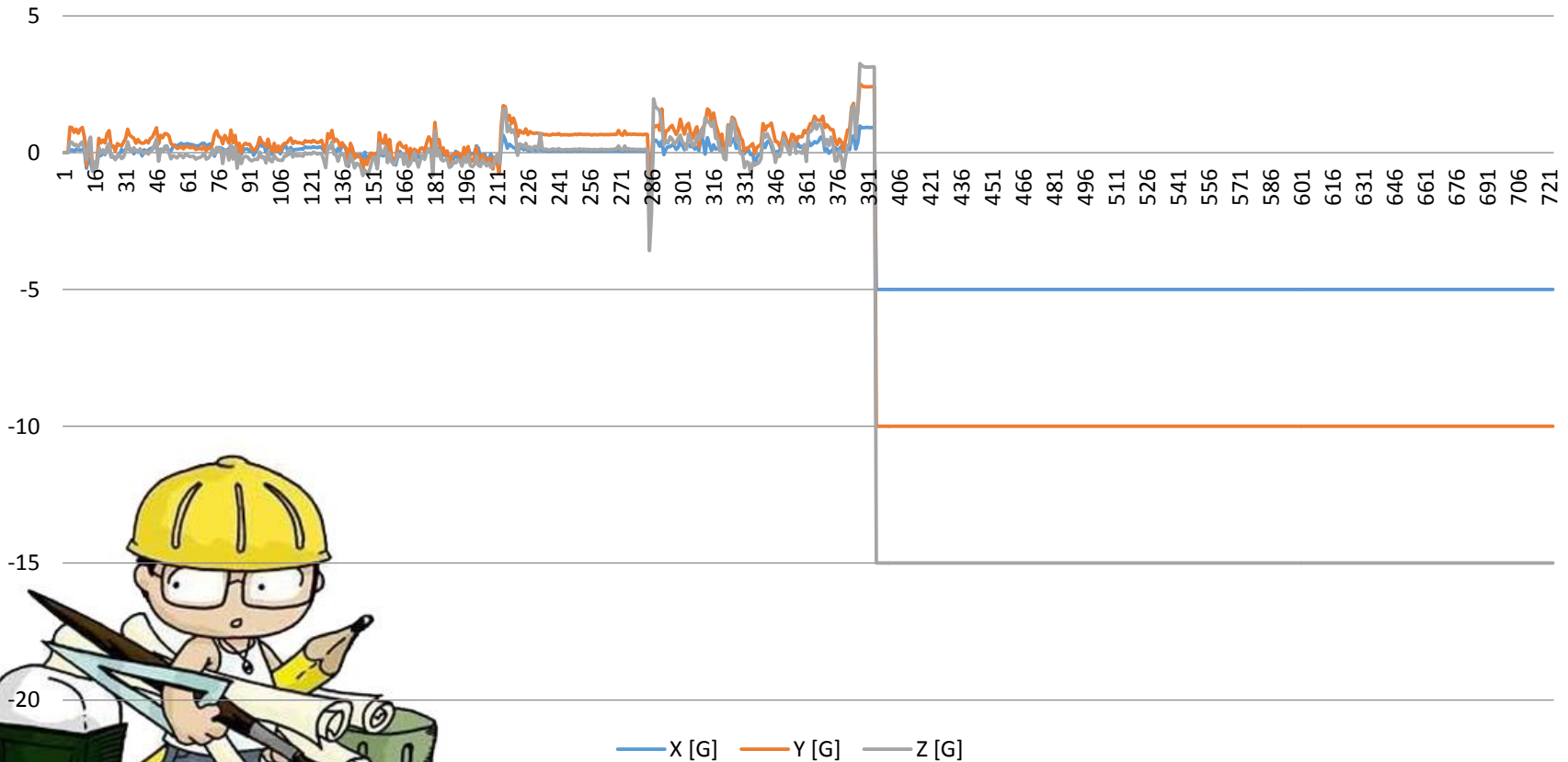


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# Accelerometer(Second launch)

## ACCELEROMETER



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# Summary

- Make a cansat and a paper rocket is a unique experience.
- All test of my cansat was success.
- CLTP 7 demonstrates us that if we study, work as a team and especially if we add a little love, then we can accomplish all tasks we decide to do.
- But, Not all were Cansats a rockets.....



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# Some pictures for the history



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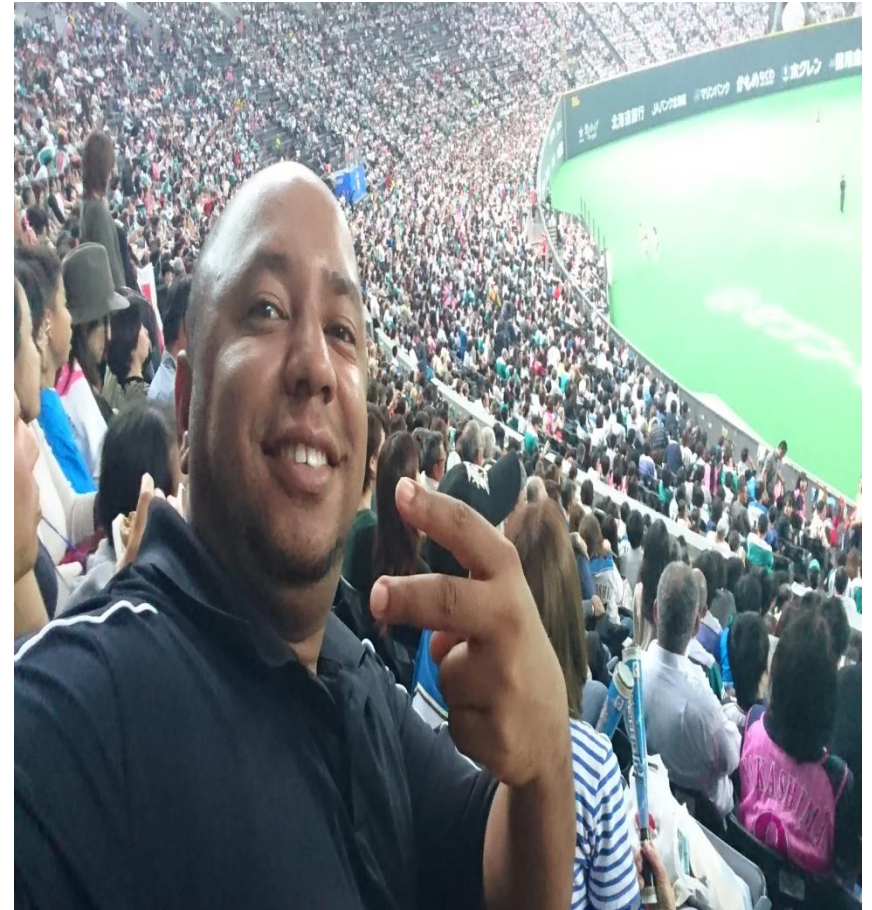
# Some pictures for the history



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# Some pictures for the history



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# Thanks for everything !!!

Gorki Encarnacion.

[gencarnacion@unapec.edu.do](mailto:gencarnacion@unapec.edu.do)

All you are welcome to  
Dominican Republic.



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