ARLISS2012

TMU Family

Tokyo Metropolitan University

Team Introduction

Members

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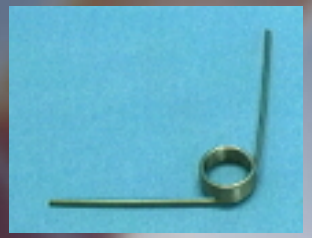
✓Shutaro NISHIKIZAWA	M1
✓Keita WATANABE	M1
✓Sho KAWAKAMI	B4

We started developing our CanSat on May.
Because it was our first experience to develop fixed wing type CanSat, we had a lot of difficulty.

About Our CanSat

Torsion springs



Weight	:	309[g]
Height	:	240[mm]
Diameter	:	140[mm]

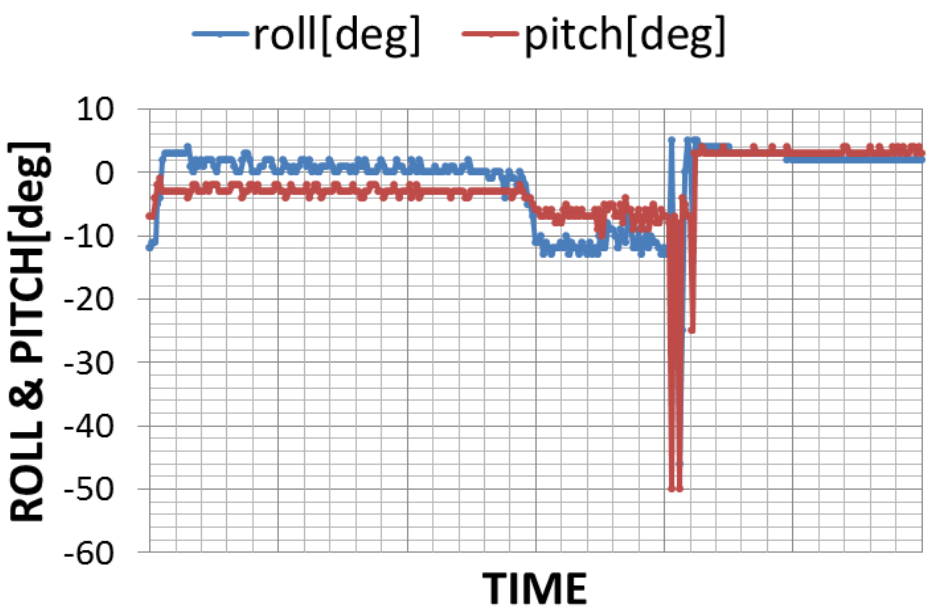
Mission Introduction

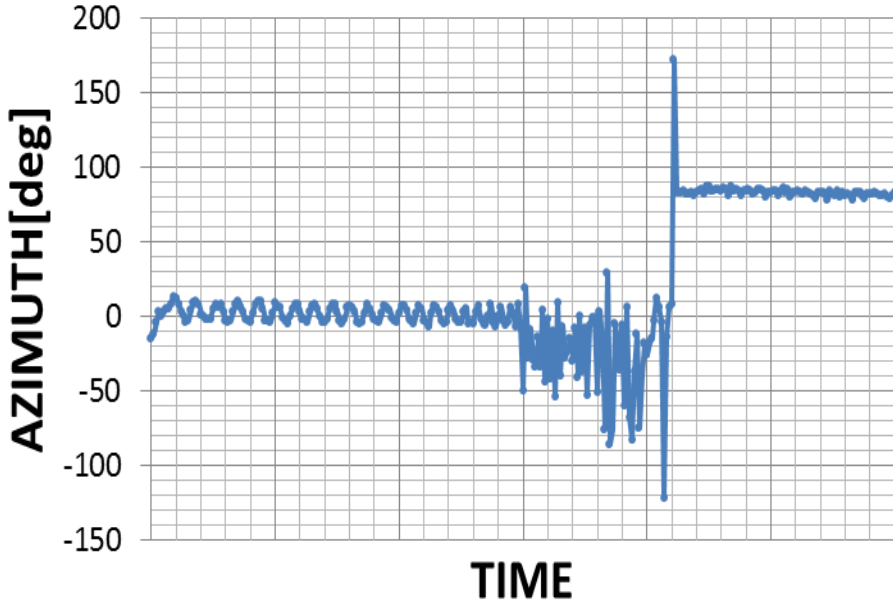
- **Full success**
  - **Calculated distance between the target and the landing point of our CanSat is less than 500m.**
- **Minimum success**
  - **(1) To be able to play the video stored in a memory correctly after recovery of our CanSat. This video should contain the scenes of the landing.**
  - **(2) The roll and pitch angles should be within±10[deg] and ±15[deg] respectively.**

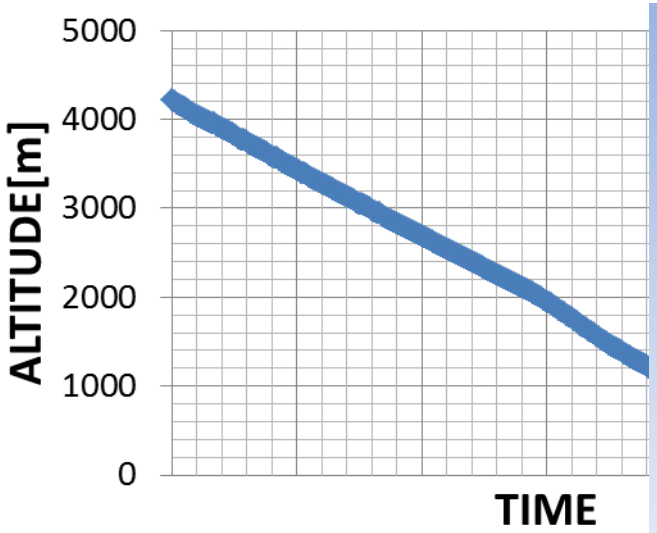
1st Flight

Our CanSat landed at 4073m away from the target point.

1st Flight







While our CanSat was flying,

- ✓Roll and pitch was within ±15degrees
- ✓Azimuth was very steady

So our CanSat could flight steadily.

1st Flight

But our CanSat couldn't take a movie.

Summary of 1st Flight

Wing deployment	Record of control	Steady flight	Taking a movie
Success	Success	Success	failed

2nd Flight

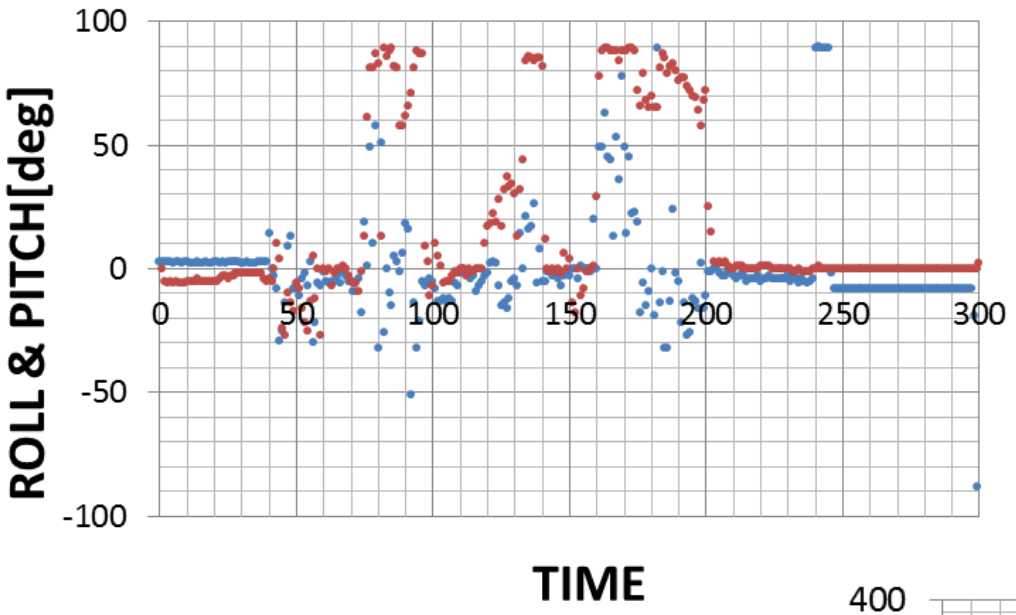
Our CanSat

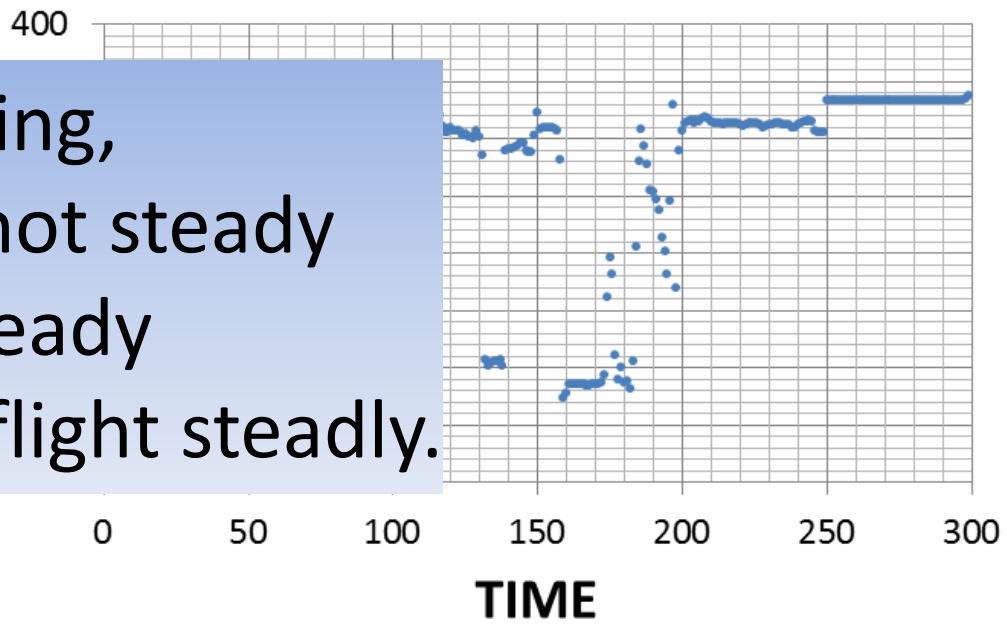
- ✓ Landed at 438m away from the target point
- ✓ Could take a movie

But it could **NOT**

- ✓ record GPS data and altitude data

2nd Flight





While our CanSat was flying,

- ✓ Roll and pitch was not steady
- ✓ Azimuth was not steady

So our CanSat could not flight steadly.

Now we show you a movie taken our CanSat.

2nd Flight

Summary of 1st Flight

Wing deployment	Record of control	Steady flight	Taking a movie
Success	Success	Success	failed

Finally

Thank you Erik and David
for your good launches.

And Thank you AEROPAC and ARLISS.