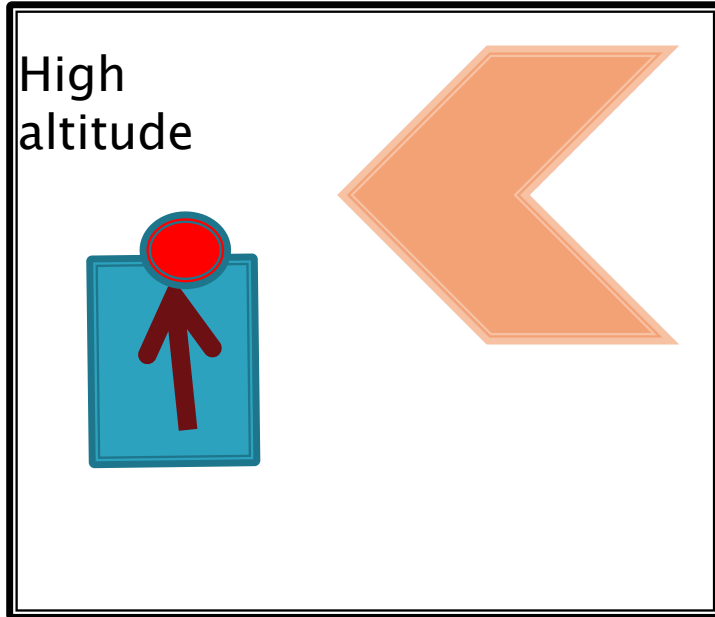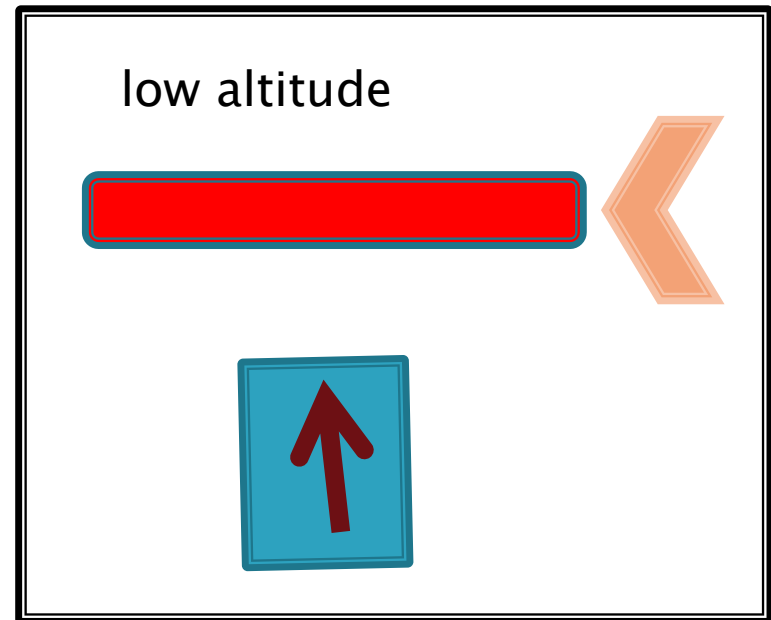# Team NASU
TOKYO Univ.
Breakfast Review

Member
Sugiyama Atsushi/Shimizu Atsushi/Shinohara Takeshi
/Masuko Tetsuyuki/Kawahara Hiroki/Nakajima Shintaro
Sakai Kento/Niwa Shoma/Yamagishi Yuki

OUR MISSION

Fly back type

High altitude

low altitude

MERIT
Smooth breakthrough of high wind area

the RESULT

Flight number	Longitude	Latitude	Distance from the goal (m)
1	W119° 5'35.52"	N40° 51'29.16"	6308
2	W119° 8'30.66"	N40° 49'52.02"	3682

・Succeed to get control record and to down link its flight data in both flight

・Succeed to delay the deployment of parafoil and to control its flight.

But the wind was too strong..
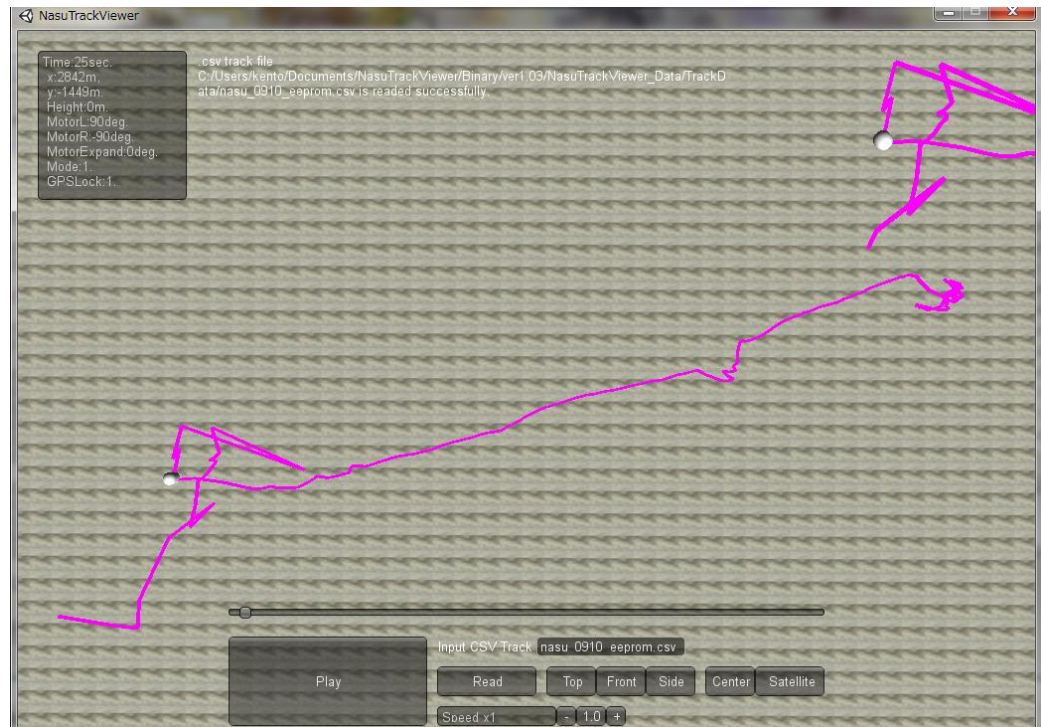
about PARAFOIL

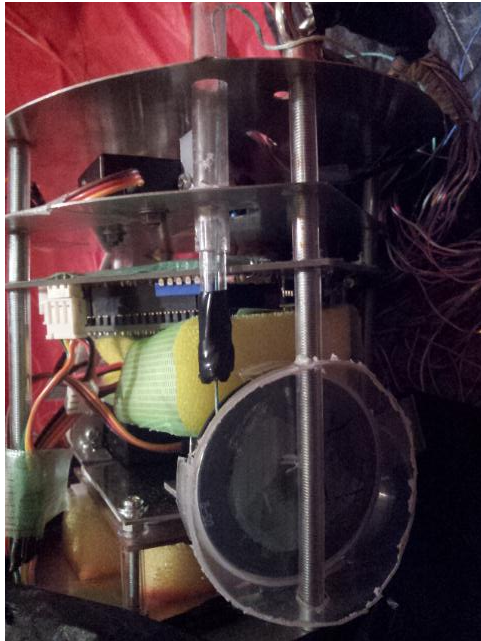No.1(which we made 4mounths ago)

No.2

No.3

No.4

No.5

No.6

No.7(which we used in ARLISS competition)

No.8(prepared as a spare)

about FRAME

How to fold parafoil

Around the control rope

The whole image

Around flight pin

about its ALGORITHM

Processes starts from ①to⑧.
①Before the flight , turn on
GPS, servo regulator, communicator regulator,
  micro computer board.
②Cut flight pin
③count 25 seconds(free fall phase)
④deploy parafoil
⑤control the flight（while counting the time）
⑥count 20 minutes
⑦turn off all electric device

SUCCESS CRITERIA

- Full success
  - reaching within 0.5-kilometers radius from the target.(FAILED)
  - Manipulate the break code attached onto the parafoil and control the direction of the CanSat motion.(Succeed)
- Use our original parafoil after certificating the reliability in auto-deployment.(Succeed)
- Minimum Success
  - Decent the CanSat by free fall when it is in high wind area, and after it get through the unstable and uncontrollable area with strong wind, the CanSat will deploy it's parafoil successfully and approach slowly to the ground.(Succeed)
  - Downlink with communication station and send it's GPS data.(succeed)
  - Write it's flight data on memory card(which is boarded on the CanSat).