



Tohoku University

FROM THE EARTH

~ Annual report ~

The department of mechanical and aerospace engineering
3rd grade
Jidai Tomihira

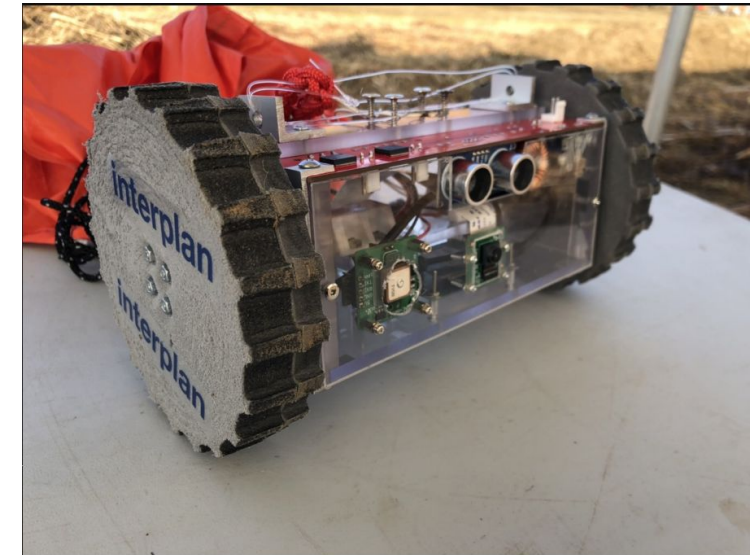


Annual schedule

Tournament

month	11	12	1	2	3	4	5	6	7	8	9	10	11
rocket	Design and Manufacturing				Canceled due to COVID19								
						Design and Manufacturing					Noshiro		
CANSAT			Design and Manufacturing								Noshiro		
volunteer												School festival	

Noshiro space event (at AKITA)



- AKITA prefecture Noshiro city
- 11/2~7
- 6 teams of rocket
- about 10 teams of CanSat

Hybrid rocket 「Tukasa」
launched toward sea

CanSat are dropped by
drone from 50~80m height

Hybrid engine rocket ~Tukasa~

Second grader make Hybrid engine rocket at the first time

Diameter 142mm

Length 1657mm

Expected altitude **900m**

Success Criterion

Minimum	Manufacturing completed
Middle	Launched completed
Full	Recovery completed
Advanced	Confirm mechanism which release the parachute operates normally





CanSat

CanSat is Imitation of satellites

<Some rules>

Weight is under 1050g

Size limit $\phi 100 \times 200$ mm

Human cannot operate them once they dropped from the drone

Our Mission

To reach the goal(Red cone) by one selves

Result

Cannot separate parachute because of the sensor failure

At Tohoku University



At Noshiro

School Festival

“Give everyone Dreams and impressions”

- Volunteer for University Student on the ground in Kawauchi Campus
- Model Rocket (Type A ~ C) reached the 50~100m height
- Designed and Manufacture in a day

20 people participate
4 rocket can launch and recovery

