

FROM THE EARTH

The department of mechanical and aerospace engineering B3 Kenta lizuka (President) Daiki Kita (Vice-President)



What is FROM THE EARTH





Number of member: 108 !!



What is FROM THE EARTH



We are a space activity club Create hybrid rockets and CanSat Provide space education

Number of member: 108 !!



Our motivation



F Breakthrough to the atmosphere J F Dreams and inspiration for all J









Hybrid Rocket CanSat

Atmosphere

Education SNS (X,Instagram)

Dreams and inspiration for all

I LI H LI K LI NI '





Hybrid Rocket CanSat Growth as an engineer Volunteer

Volunteer SNS (X,Instagram)

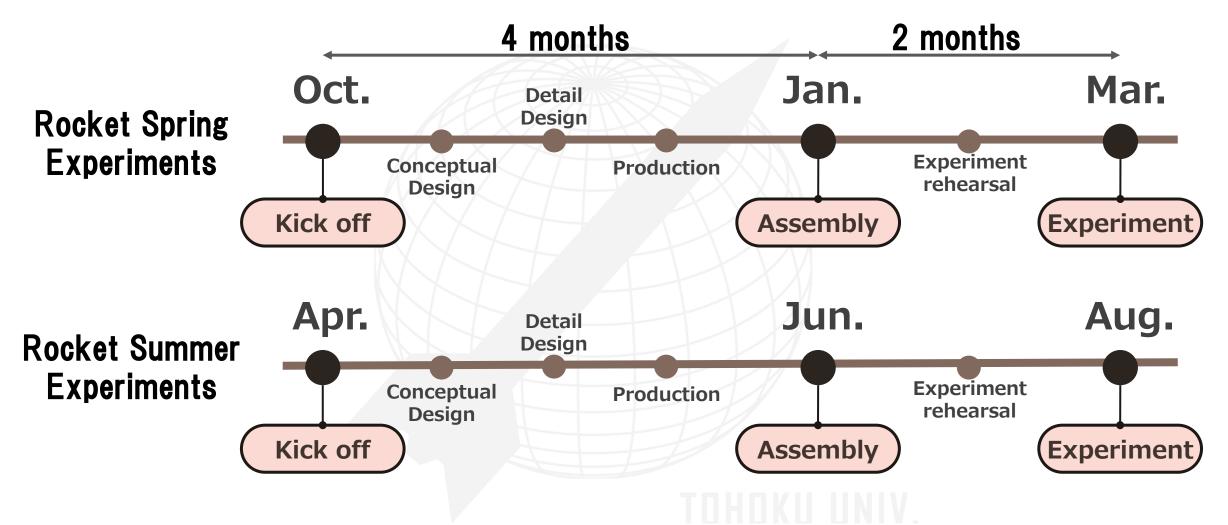
2023-2024 Performance Report of Tohoku University Students' Projects



inspiration for all

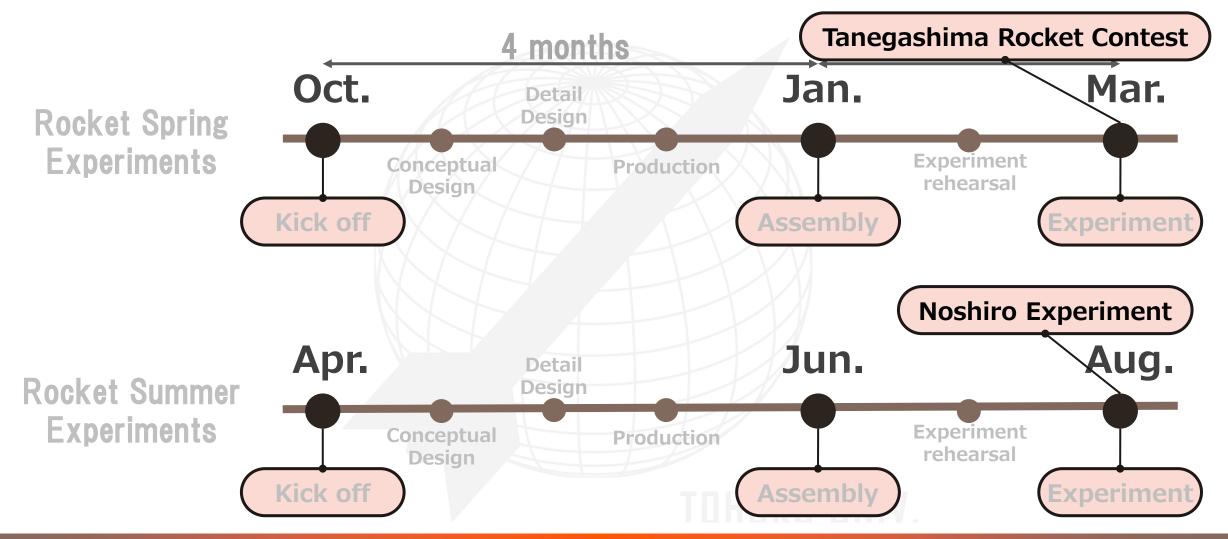
Yearly Schedule





Yearly Schedule







Hybrid Rocket



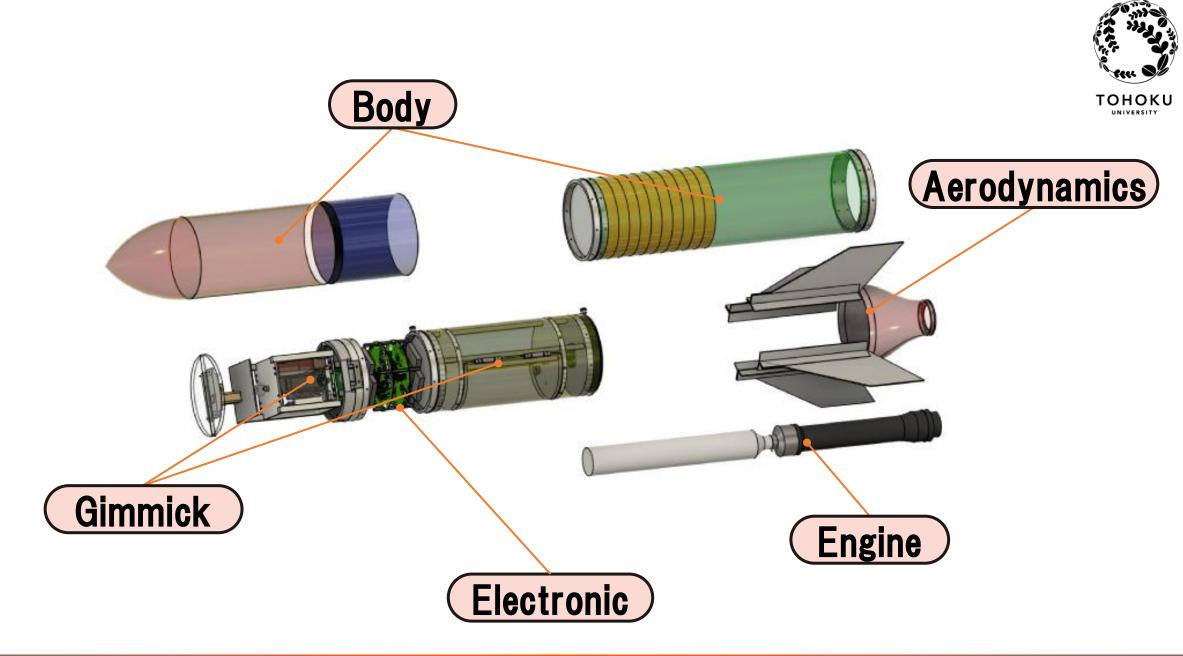


Hybrid Rocket











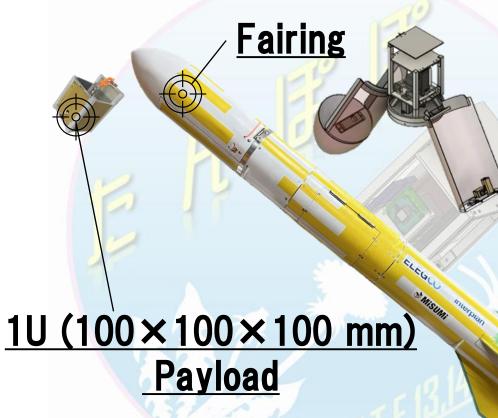
Productions







たんぽぽ (Tanpopo)





[Mission] Payload release by opening fairing [Spec] Overall length: 1496[mm] Dry weight: 6.482[kg] (including 1 kg payload) **Reaching altitude: 297[m]**





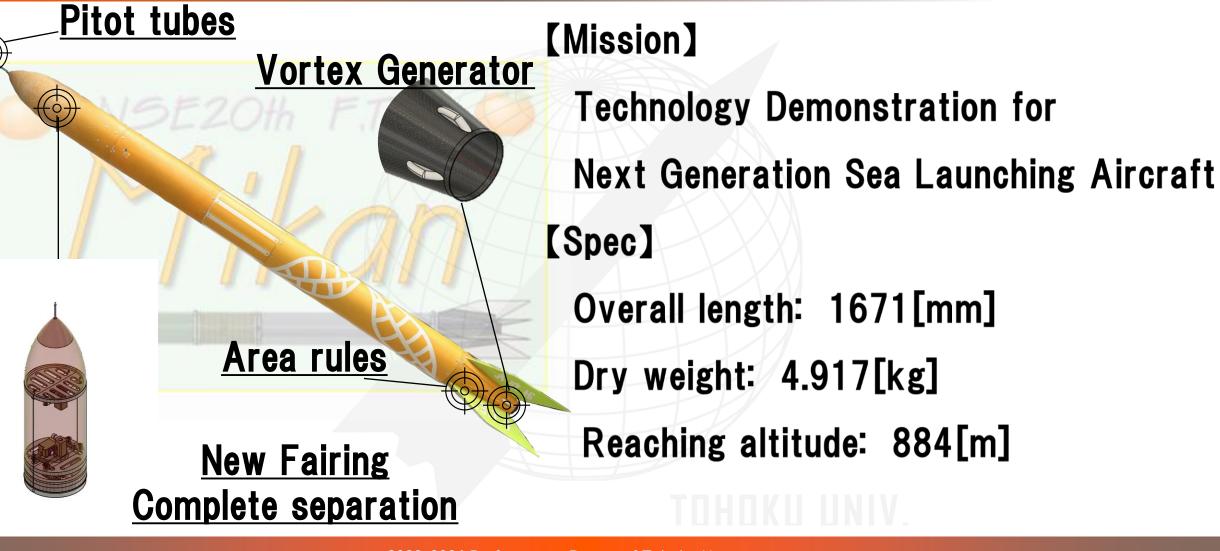




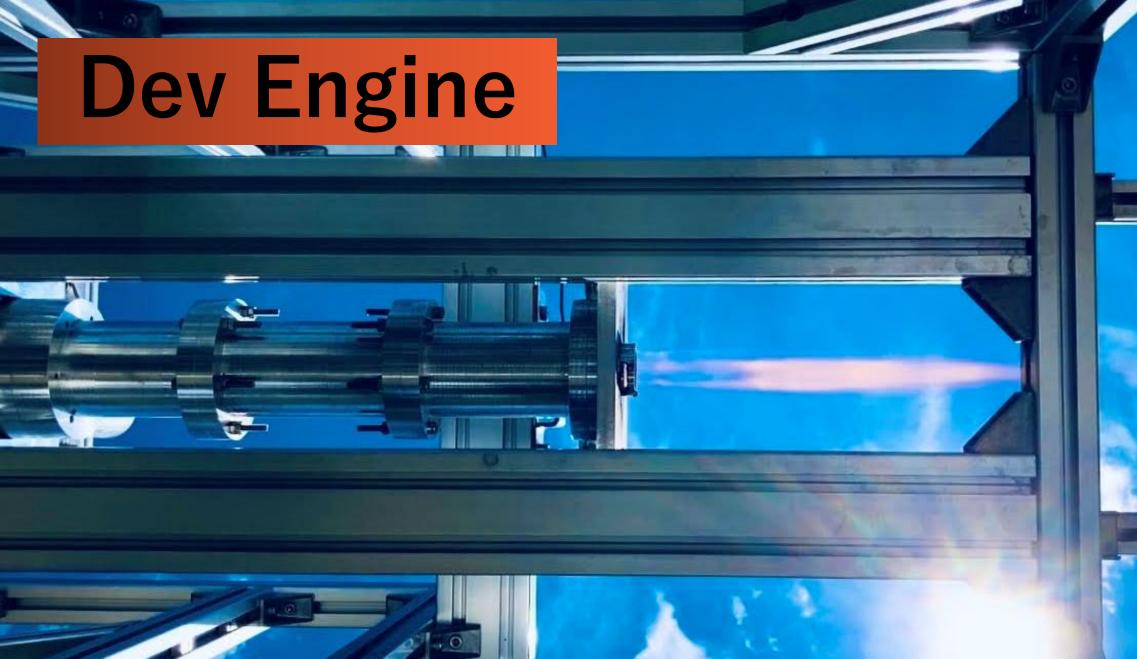
みかん (Mikan)

2025/2/20









2025/2/20

Pursuit of further safety and high thrust



Development of engines

Purchase of off-the-shelf products Lack of safety and flexibility



Freedom of thrust Certainty of safety evaluation



TOHOKU UNIV.



Development of the second engine



Flow of Use Test

- 1. Flow rate test
- 2. Pressure test
- 3. Combustion experiments
- 4. Equipped with actual equipment

Deficiencies in design discovered.

Redesign

TOHOKU UNIV

CanSat

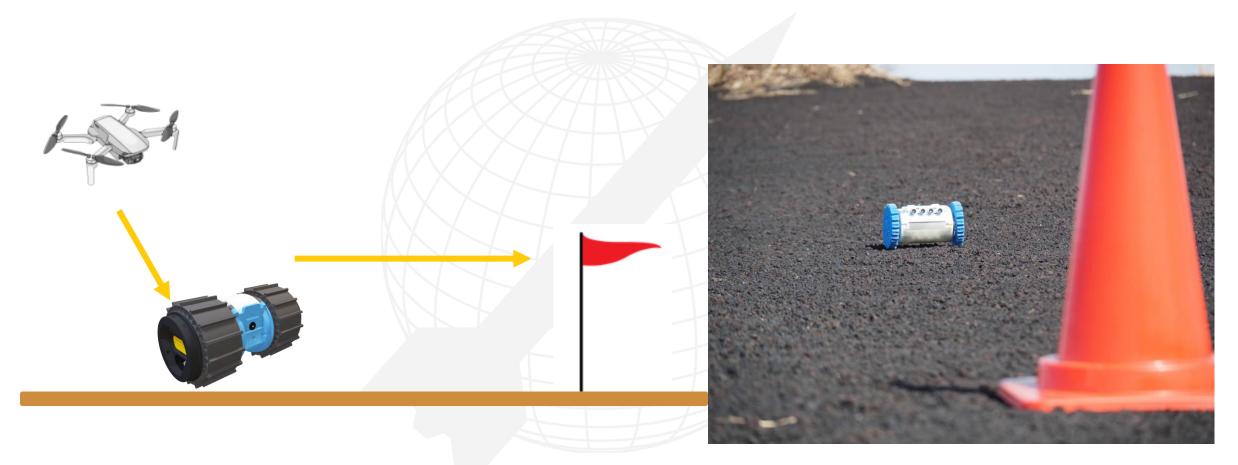


2023-2024 Performance Report of Tohoku University Students' Projects

\$

CanSat





TOHOKU UNIV.

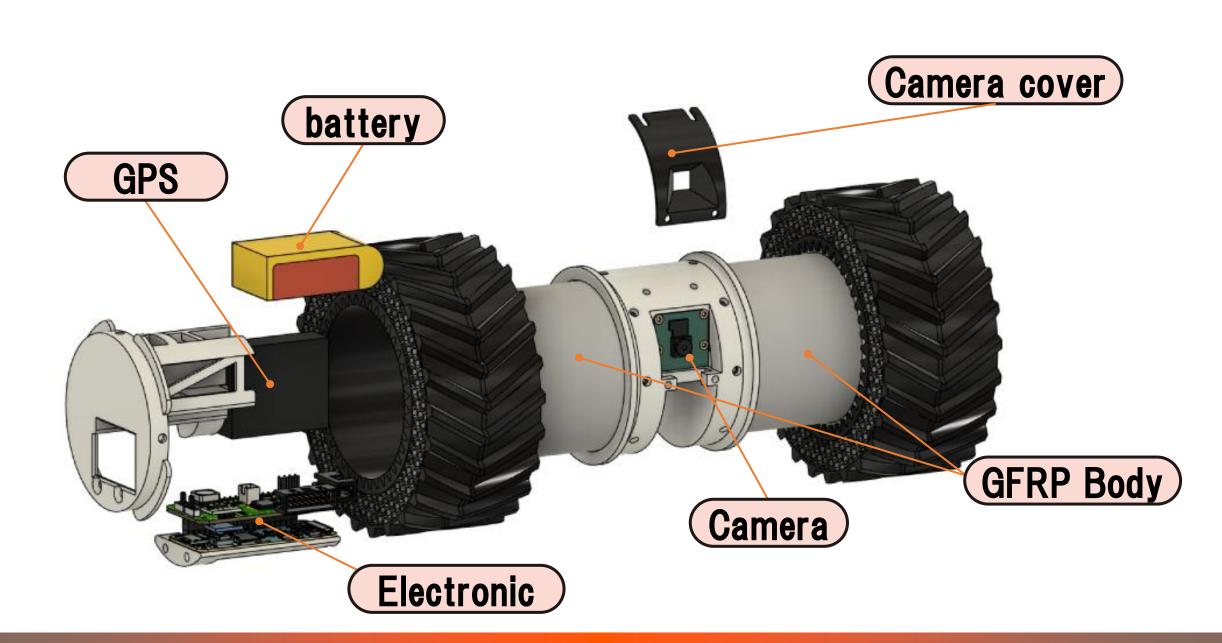
Product example



Fist Participated in the Noshiro Space event.







۱

Volunteer



2025/2/20

2023-2024 Performance Report of Tohoku University Students' Projects

lementery echo

Volunteer





- PET Bottle Rocket
- Umbrella bag rocket





Junior highschool Highschool

Volunteer



- Model Rocket
- Lecture on career paths

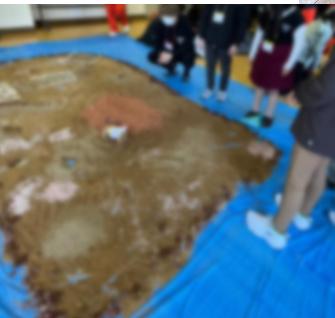


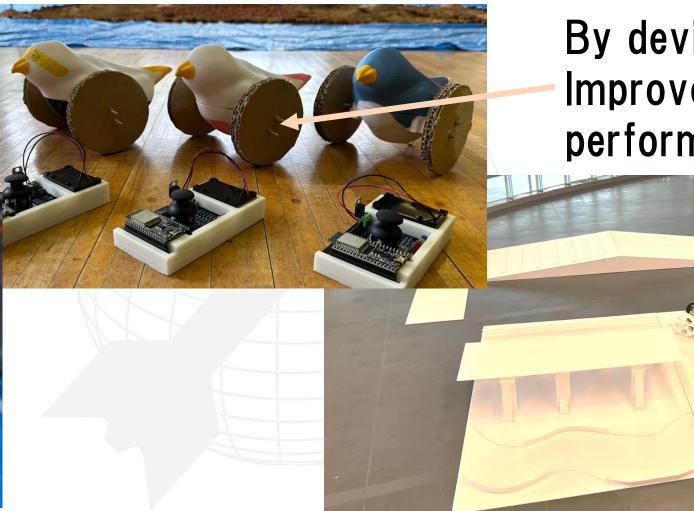


Volunteer



CanSat





By devising tires Improved running performance!

3







- Two Corporate Awards (Noshiro Space Event)
 - Award for the most effective use of CAD and sophisticated design flow
 - Award for detailed analysis of rocket launch behavior based on slow motion video
- Management Award (Noshiro Space Event)
 - Award given to organizations that have worked hard to organize the event.







Extracurricular Activity Encouragement Award

• Awards given to organizations that have contributed to Tohoku University and the local community.

Science Day Awards

(Miyagi Industrial Technology Center Director's Award - Governor of Miyagi Prefecture Award)

• Award given to organizations that hold outstanding science classes at an event called Science Day.





2023-2024 Performance Report of Tohoku University Students' Projects

2025/2/20

Example



combustion experiments.



Prepreg is used for making

rocket body.



30

Thank you for supporting us!





