

**2022-2023 Performance Report of Tohoku University Students' Projects
Supported by Boeing Higher Education Program**

On Thursday, December 14, 2023

Venue: Boeing Japan

09:45-09:50 Introduction by Prof. Shigeru Obayashi

<Undergraduate students' projects>

09:50-10:05 Tohoku UAV Tech. (Unmanned Aerial Vehicle)
Akito IKUSHIMA, Takumi FURUSAWA
(B3, Department of Mechanical and Aerospace Engineering)

10:05-10:20 T-semi (Robotics Circuitry and Programming)
Itsuki HAYASHI (B2, Department of Mechanical and Aerospace
Engineering), Hirotaka KOBASHIGAWA (B1, Department of
Mechanical and Aerospace Engineering)

10:20-10:35 From The Earth (Hybrid Rocket Launching)
Kotaka NAGAYAMA, Kota MATSUHASHI (B3, Department of
Mechanical and Aerospace Engineering)

10:35-10:50 TUFT (EV Formula Car Racing)
Takuma YANA (B3, Department of Mechanical and Aerospace
Engineering), Shuhei NIWANO (B2, Department of Mechanical
and Aerospace Engineering)

10:50-11:05 Windnauts (Human-powered Airplane)
Kazuki OGAWA, Takaaki KAWAHITO (B3, Department of
Mechanical and Aerospace Engineering)

<Master's students' projects>

11:05-11:20 Ryo IIJIMA
(M2, Department of Aerospace Engineering)
"Multi-objective design optimization of the multi-dispersed
electric propulsion fan with regenerative air braking in a small
passenger aircraft"

11:20-11:35 Chihaya ABE
(M2, Department of Aerospace Engineering)
"Project for real-time control of flow field using sparse
processing PIV and plasma actuators"

11:35-11:45 Comment from Boeing Japan