



Tohoku University Formula Team

2018 Student Formula Japan
- Monozukuri Design Competition -

Jan. 21, 2019
Hayato Nishimura (Team leader)

Outline

- Tohoku University Formula Team
(What's Student Formula?)
- Our Machine TF-18
- Result
- Future Goal



What is TUFT: Tohoku University Formula Team?

We develop Electric Racing Cars.

Our purpose is to win the Student Formula Japan.



What is TUFT: Tohoku University Formula Team?

Whole processes are coordinated by students.

We don't just design and manufacture cars,
but also collect sponsorship and manage budget.



What's student formula ?

To challenge design, fabricate, develop and compete with small, formula style, vehicles.



Name of competition: 2018 Student Formula
Date: Sep. 4~8, 2018
Place: Ogasayama Sports Park ECOPA (Shizuoka prefecture)

2018 Theme

Beyond



TF-18

1. Light Weight
330kg → 300kg (the 2nd lightest in Japan)
2. Use new battery produced by Tohoku University



Result

Overall Result

1st Osaka University	853.34pt
2nd Kyoto Institute of Technology	840.46pt
3rd Nagoya University(EV)	776.51pt
...	
81st Tohoku University(EV)	51.86pt

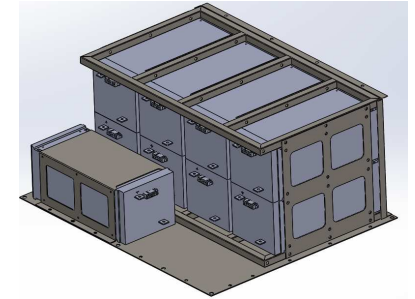
Result

Items		Rank of 106 teams (ICV + EV)	Point
Technical Inspection		Not Passed	—
Static Events	Cost and Manufacturing	46	23.36pt/100pt
	Design	63	46pt/150pt
	Presentation	21	52.5pt/75pt
Dynamic events	Acceleration	Do not started	0pt/75pt
	Skid Pad	Do not started	0pt/50pt
	Autocross	Do not started	0pt /150pt
	Endurance	Do not started	0pt/300pt
	Efficiency	—	0pt/100pt
Over all result		81	51.86pt /1000pt

Result

•We couldn't pass the car Inspection.
 →Accumulator container doesn't match the rule.

- Few members
- Delayed schedule
- Insufficient vision



Future Plans

•Next Product

TF-19

Extreme easy to handle



【KEYWORDS】

- Drivability
 1. Accurate Response
 2. Stable Maneuverability
 3. "Feel" the Car
- Maintainability
 1. Accessibility
 2. Convenient Setup
 3. Electrically Safe

Thank you for your attention.

