

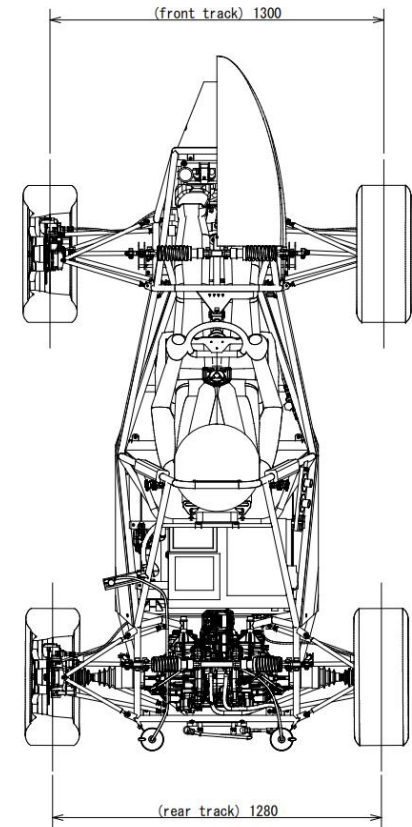
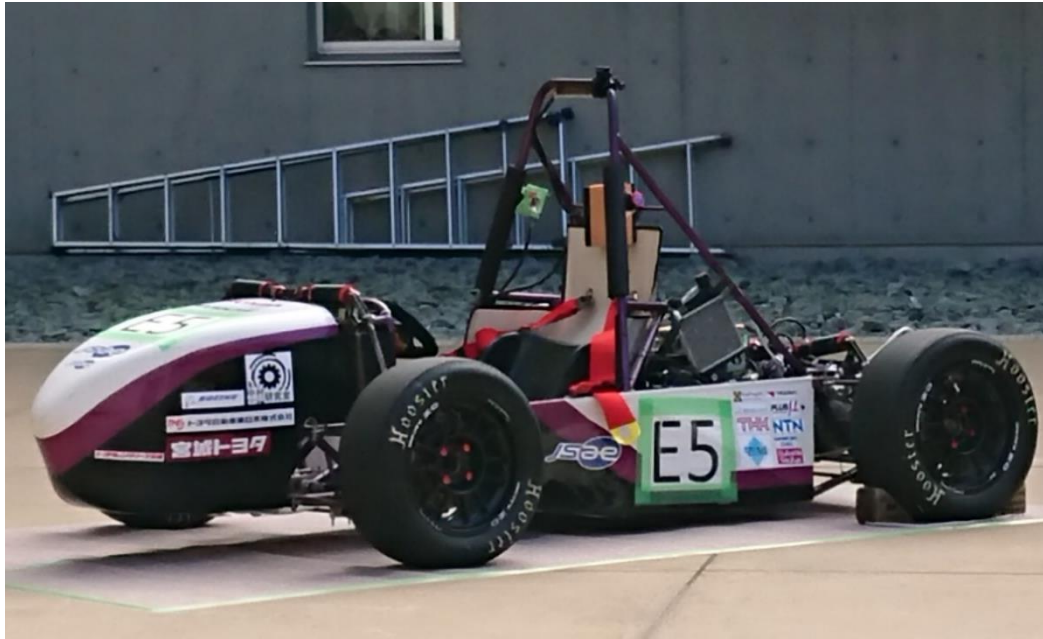


Tohoku Univ. Formula Team

2020-2021 Report of activity

7/12/2021 (Tue)
2020-2021 Project Reader
Tatsuya Kubo

About Us



We build our own **racing cars** according to the rules and
We are participating in **Formula SAE Japan** Competition.

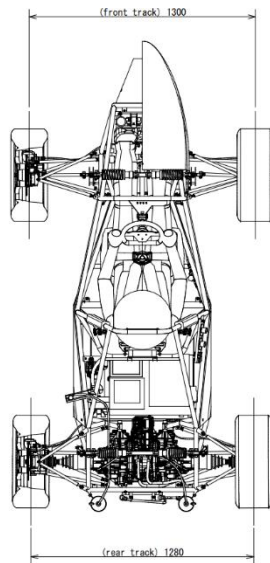
About “Formula SAE Japan”



- The purpose of this competition is to develop students' manufacturing skills through the development of racing cars.
- 62 teams from Japan participated in this event.

About "Formula SAE Japan"

Two aspects of competition



○Statics Event
Compete with the various reports

○Dynamic Event
Compete for lap time of various tracks

The Competition were cancelled in 2020 and held only static event online in 2021.

Activities of our Team

~2020~

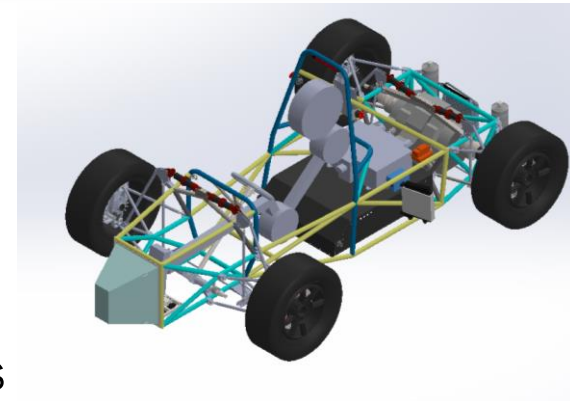
Mar : built and completed 2020 car and suspend activities

Aug. : Launching the team for 2021

Sep~Nov : Previous year vehicle test run and new vehicle design

Dec. : Design and manufacture of new vehicles

12/27 : Ceased face-to-face activities and abandoned development of new vehicles



Activities of our Team

~**2021**~

Jan~Jun : Document Production (Online)

6/19 : Resumed face-to-face activities

6/29~7/25 : Previous year's vehicle test run

7/30 : Changed the format of the tournament to online only.

Aug : Document Production

8/25~31 : Competition

Review of the competition

Events		Score	Ranking
Static Event	Cost	23.47 _{/100}	26th / _{61th}
	Design	63.00 _{/150}	34th / _{61th}
	Presentation	57.25 _{/75}	14th / _{61th}
late submission penalty of cost		-20	
Overall		123.72 _{/325}	27th / _{61th} (Our best result)

Cost Event (26th/61th)

Result

2021	26th	23.47/100pt
2019	25th	34.5/100pt

Event Details

Report on the manufacturing cost of the machine and evaluate its consistency.

Efforts

Check and manage the progress of each part on the cloud service.

Rookie students also worked as mainstays to create materials.

reflection points

- Rookie students were Proficient.
- Lack of management of schedule double checking and Evidence of cost.

Design Event (34th/61th)

Result

2021	34th	63/150pt
2019	66th	43/150pt

Event Details

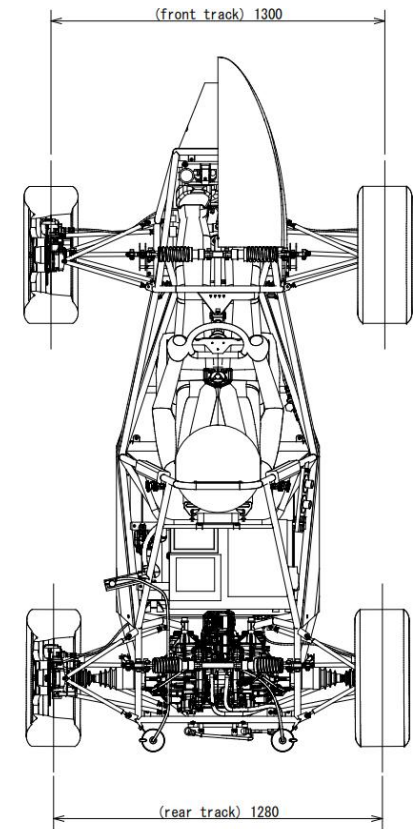
The process and rationality of the design are examined from various fields such as structure, maintainability, and aesthetics.

Effort

- Clear the machine concept
- Enhancement of drivetrain part
- Rookie students also worked as mainstays to create materials.

reflection points

- Gain the score of drivetrain part
- Rookie students were proficient
- Lack of quantitative design goals, performance evaluation



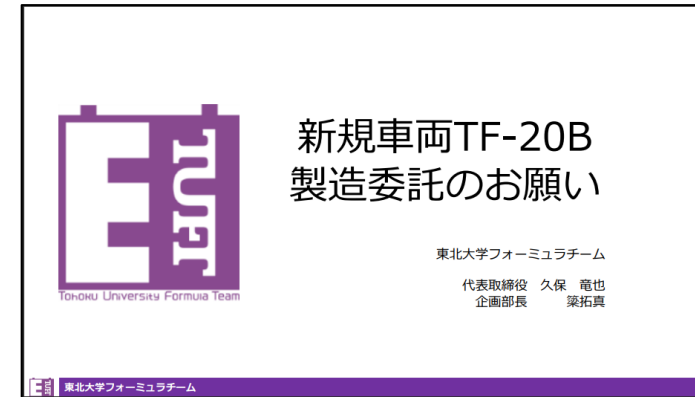
Presentation Events (14/61th)

Results

2021	14th	57.25/75pt
2019	65th	32/75pt

Event Details

In a hypothetical sale of a team vehicle, the team makes a presentation to the judges.



Efforts

- Support the rule changes
- Repetition of presentation practice

reflection points

- well-reasoned content
- Easy to understand of presentation
- Lack of novelty of the business model
- Unclear of target volume

In closing

We have received a lot of sponsorship this season.
Thank you very much for supports.

