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Design of Formula Student Vehicle

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Design of Formula Student Vehicle: Formula Student (FS) is the proven educational motorsport competition in the world.

Universities around the world are included in this challenge to design and build a single-seated racing car to compete in static and dynamic disciplines that demonstrate their knowledge and test the performance of the car. Participation taken over 600 teams from around the world.

Key words: Design, Formula Student, Design of Vehicles, Car design

INTRODUCTION

Formula Student (FS) is the proven educational motorsport competition in the world. It is run by the Institution of Mechanical Engineers and uses the same rules as the original Formula SAE with supplementary regulations. Backed by the industry and senior engineers as Ross Brawn, the competition aims to inspire and develop enterprising and innovative young engineers. Universities around the world are included in the challenge to design and build a single-seater racing car to compete in static and dynamic disciplines that demonstrate their knowledge and test the performance of the car.



Fig.1 Formula Student Vehicle - construction and final result

SUMMARY

Universities around the world are taking part in this challenge to design and build a single-seater racing car to compete in static and dynamic disciplines that demonstrate their knowledge and test the performance of the car. Each and every participant must learn along the way and employ old and new, practical and theoretical, technical knowledge for a successful working and as easy as possible to produce design. However, formula student is not only an engineering competition, as it includes strict deadlines and usually 20+ members in each team that need to be organized and work as a single machine, it proves to be a serious project in a working environment. Thus it requires significant project management skills. More than 600 teams around the world participate in FSAE competitions.

Formula Student is:

- High grade engineering design, highly valued by universities and is usually part of the curriculum.
- The closest intersection point with motorsport engineering for a student during his study.
- Invaluable opportunity to learn and gain practical experience in designing an actual race car.
- Great way for improving project management and problem solving skills for participants.
- Appreciation of real engineering experience in a working environment.

Formula Student Design Report

Xiaolong Qi



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