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## Design of Formula Student Vehicle

Kamen Uzunov, Stayko Tzenov

*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

**American Society of Mechanical  
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*Design and Implementation of a Traction Control System for the Formula SAE Racecar* Matthew J. Harlan, 2000

*Design Applications in Industry and Education* S. Culley, 2001-10-10 Expanding the field's reach with new approaches to application Design Applications in Industry and Education is a collection of papers presented at the 13th International Conference on Engineering Design in Glasgow Scotland Founded in 1981 by Workshop Design Konstruktion this conference has grown to become one of the field's major exchanges one of four volumes this book provides current insight based on the ongoing work of the field's leading engineers Novel applications are explored with emphasis on solving barrier challenges suggesting new avenues for implementation and expansion of engineering design's utility *Advances in Manufacturing and Industrial Engineering* Ranganath M. Singari, Kaliyan Mathiyazhagan, Harish Kumar, 2021-01-13 This book presents selected peer reviewed papers from the International Conference on Advanced Production and Industrial Engineering ICAPIE 2019 It covers a wide range of topics and latest research in mechanical systems engineering materials engineering micro machining renewable energy industrial and production engineering and additive manufacturing Given the range of topics discussed this book will be useful for students and researchers primarily working in mechanical and industrial engineering and energy technologies

**Sharing Experience in Engineering Design (SEED 2002)** M. A. C. Evatt, E. K. Brodhurst, 2002-10-22 Sharing Experience in Engineering Design is based on papers presented at the Engineering and Product Design Education Conference E Degree design exploring creativity from the start Assessing creativity theory and practice Developing an appreciation of the complex interactions between life cycle analysis and design for manufacture Strategic design and product development a practical application of business process re engineering in bespoke manufacturing Engineering design modules teaching by projects Product design project teaching using athletic transport artefacts as the vehicle Sketching a dying art Overcoming human barriers to knowledge based systems in design *EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization* H.C. Rodrigues, J. Herskovits, C.M. Mota Soares, A.L. Araújo, J.M. Guedes, J.O. Folgado, F. Moleiro, J. F. A. Madeira, 2018-09-13 The papers in this volume focus on the following topics design optimization and inverse problems numerical optimization techniques efficient analysis and reanalysis techniques sensitivity analysis and industrial applications The conference EngOpt brings together engineers applied mathematicians and computer scientists working on research development and practical application of optimization methods in all engineering disciplines and applied sciences **Annual Conference Proceedings** American Society for Engineering Education. Conference, 1995

Engineering Education through Social Innovation Douglas Gorham, Nnamdi Nwulu, 2020-01-20 This book explores the nexus between professional technical societies and engineering education by examining several societies efforts to promote and support engineering and engineering education in the areas of pre university education university education and informal education through programs and activities designed to leverage social innovation Professional societies are in a

unique position to support and contribute to engineering education and have dedicated substantial resources to social responsibility programs and activities that promote engineers and engineering The book is chiefly intended for engineers engineering educators staff members of professional technical societies and for the broad range of scholars whose work involves technology education and education policy

**Proceedings** American Society for Engineering Education. Conference,1995 *Report* Iowa State University,1875 Report Iowa State College,1875 *Engineering Design Graphics Journal* ,1979 *Student Housing Planning, Design and Construction* Ira Stephen Fink,1994 **Innovations in Engineering Design Education** American Society of Mechanical Engineers,1993 Automotive Engineering International ,2007 *A New Design: Financing for Effective Education in Illinois* Illinois. Governor's Commission on Schools. Finance Task Force,1972 **Cumulative Index [of The] SAE Papers** Society of Automotive Engineers,1965 **Design & Applied Arts Index** ,2001 *Biennial Report of the Board of Trustees of the Iowa State Agricultural College and Farm to the Governor of Iowa* Iowa State Agricultural College Farm,1875 "Report of a Visit to American Educational Institutions," Ernest Smith Awmack Robson,1905 *Annual Index/abstracts of SAE Technical Papers* ,1990

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