

FORCE KSHVAKU RACING



WHO WE ARE

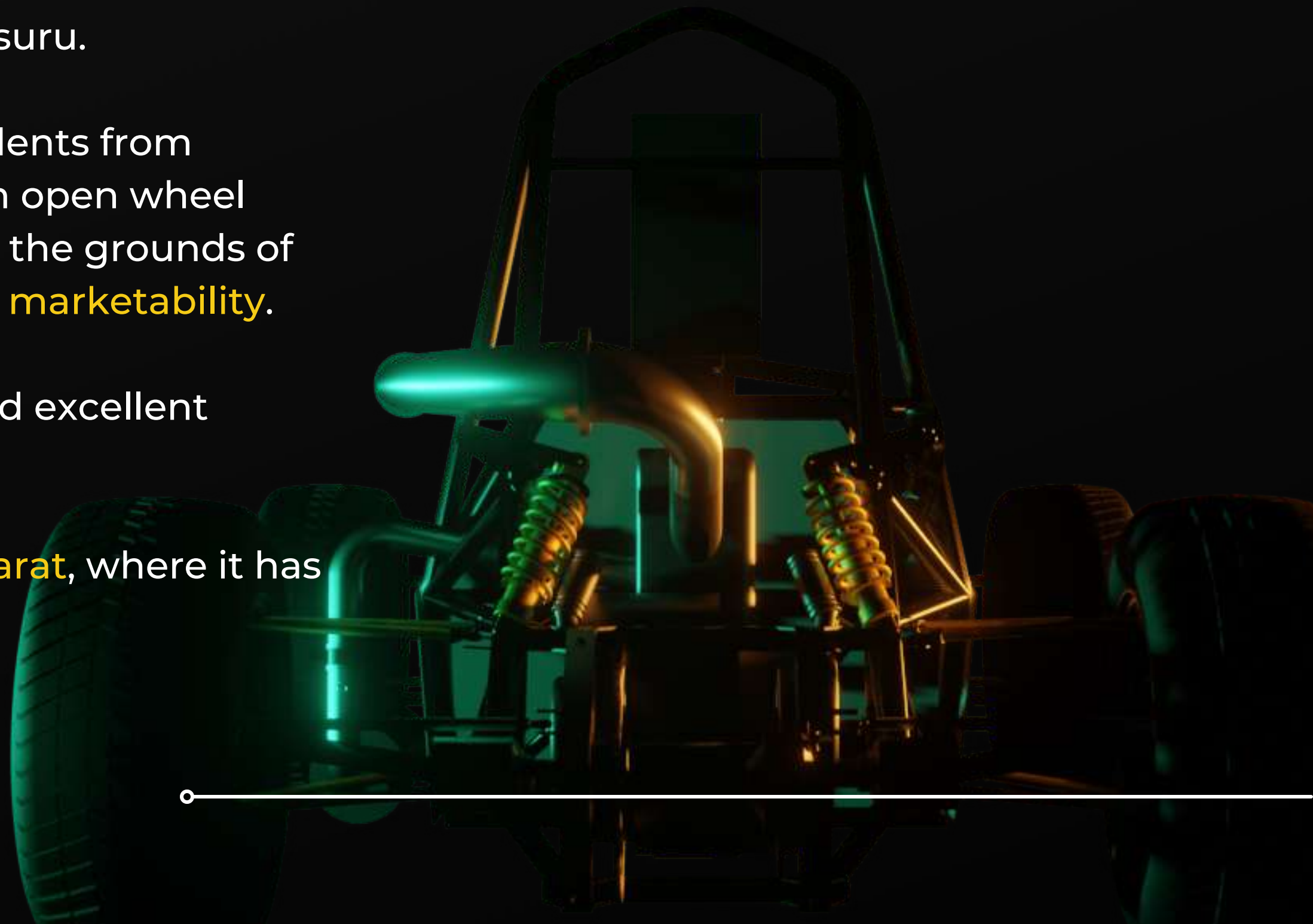
01.

Force Ikshvaku Racing is the official Formula Student team from The National Institute of Engineering, Mysuru.

We are a group of passionate **engineering** students from various disciplines who design and fabricate an open wheel racing car, made to compete and dominate on the grounds of **design, manufacturing, performance and even marketability**.

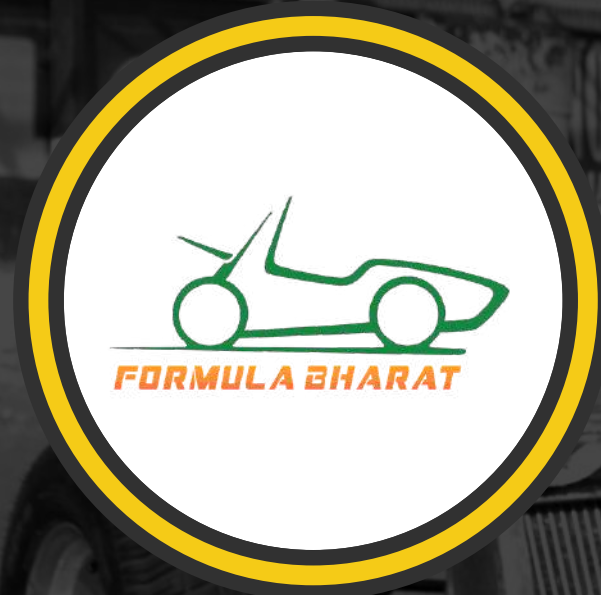
We have successfully participated and achieved excellent results at **SUPRA SAE INDIA**.

The team currently participates in **Formula Bharat**, where it has continued its successful run.



WHAT WE DO

02.



We participate in **Formula Bharat**, which is an Indian Formula Student-style engineering design competition in which students from colleges and universities all over the country compete with a life-size formula-style vehicle in areas of **engineering design, overall cost, marketability and dynamic performance**. The series replicates the global student Formula series hosted in around **11** countries per year.



The purpose of this competition is to encourage students to gain hands-on practical experience while applying engineering theories studied in the classroom. In addition, students learn the art of **administration and teamwork**, which are essential skills required in the 'real-world'. We are required to build a **new vehicle from scratch** year-after-year and seek sponsorship and donations by different means to fund the project.

WHAT WE DO

02.

The event includes several technical and presentation aspects that are judged according to the design and presentation abilities. The presentations provide a real-life experience of public speaking and exposure among the team members. It also provides an opportunity for students to interact with industry leaders who are a part of this event.

Some of the rounds include:

Technical inspection

In this round, all the cars will be inspected and checked for flaws and if they are in accordance with all the rules by judges.

Business Presentation

Assuming the team as a mass producer of the car that they have fabricated, each team must pitch their car and sell them to the judges.

Cost-Report Presentation

This is a presentation of the expenditure of the design and fabrication of the car. The cost report must cover the complete project by providing the details of expenses for all the components, processes and labor involved.

WHAT WE DO

02.

Design-Report Presentation

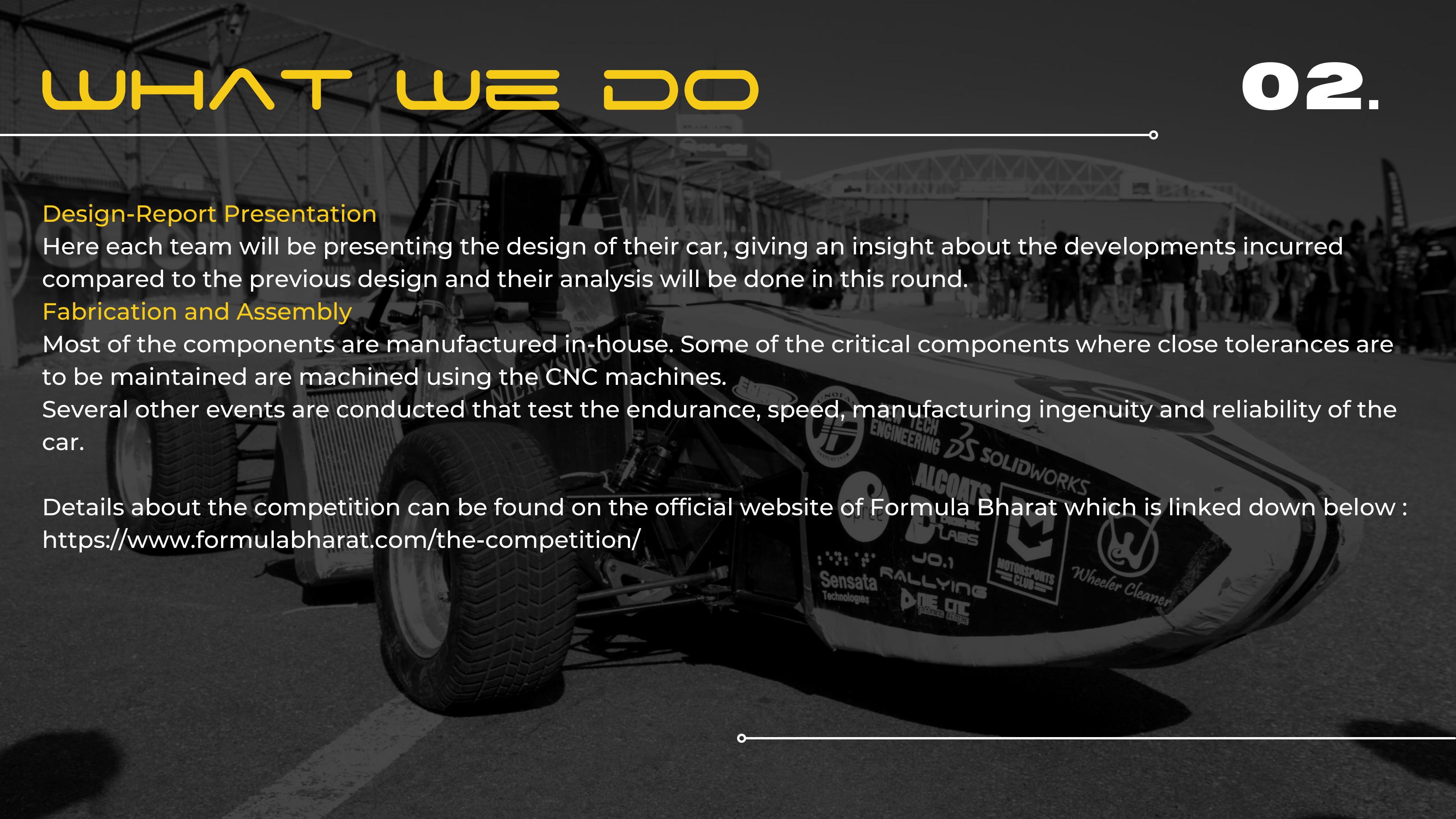
Here each team will be presenting the design of their car, giving an insight about the developments incurred compared to the previous design and their analysis will be done in this round.

Fabrication and Assembly

Most of the components are manufactured in-house. Some of the critical components where close tolerances are to be maintained are machined using the CNC machines.

Several other events are conducted that test the endurance, speed, manufacturing ingenuity and reliability of the car.

Details about the competition can be found on the official website of Formula Bharat which is linked down below :
<https://www.formulabharat.com/the-competition/>



OUR JOURNEY

03.



2015

Best Cost Report and Spirit of SUPRA in SUPRA SAE 2015



2016

Overall 7th position
4th in endurance
Featured on front page of Autocar Supplement



2017

2nd in Business Event in SUPRA SAE 2017



2018

Safety First award in Formula Bharat 19



2019

11th in Business Event in Formula Bharat 20

2020

Fresher Team Effort in FSEV Concept Challenge

6th in Business Event and 10th overall in Formula Bharat 22

HOW DO WE WORK

04.



DESIGN / REFINE / TEST / COMPETE

CHASSIS

AISI 4130 tubular
space frame

BODY WORK

FRP & Epoxy Resin
based structures

SUSPENSION

DNM adjustable Suspension

TYRE

BKT all weather tires

POWERTRAIN

Locked type spool
differential

ENGINE

KTM RC 390 (373 cc)

