



TEAM CHIMERA



R V COLLEGE OF
ENGINEERING



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India's premier student
formula hybrid and electric
team.

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WHO ARE WE?

OUR TEAM

Team Chimera is a Student Design Team involved in the design and development of formula style hybrid and electric race cars. The prototypes developed, participate in the Formula SAE series held all over the world. Started in the year 2006, the team has been consistently involved in research and development of hybrid and electric automotive technology.

ONGOING PROJECT

The team is now completely focusing on the project, where an electric formula car is being built from the scratch. This car will be participating in the Electric category of Formula Bharat 2019 and Student Formula Japan 2019.



PROJECT PROCESS

1

RESEARCH

Work on what ways the car can be improved

2

DESIGN

The virtual design and simulations are done.

3

FABRICATE

The car is fabricated from the scratch.

4

RACE

The electric formula car is thus made to race at the FSAE event, Japan.

THE EVENT

FSAE

In this competition, students themselves organize a team to plan, design and produce a small formula-style racing car. However, the competition focuses on the overall activities surrounding object creation; in other words, not only the running performance, but also the car concept and design, as well as cost and other aspects of the vehicle. While creating their cars, students acquire a wide range of practical knowledge not limited to only machinery and electronics, and also strive to increase performance, reduce costs, and improve the marketability of their vehicle. This in turn sharpens their ability to self-identify and resolve problems - skills that are nowadays expected of young engineers and students.

The events involve two main parts, namely, static events and dynamic events.

Static events include the following

1. Design Presentation - Where the team showcases the technical aspects of the prototype and how the car is unique compared to the competition.
2. Cost evaluation - Where the team prepares a detailed report of how much it would cost to produce the prototype. Here the focus is not only on keeping the cost low, but also on accurate cost estimation for each and every component of the prototype.
3. Business Presentation - Where the team sells the prototype to a manufacturer. The team provides details of how they plan to market the product, show their business development plans and sustainability reports.

The dynamic events test the car in action. The events are

1. Acceleration.
2. Skid pad.
3. Autocross.
4. Endurance.



MILESTONES



JULY 2009

Hybrid Auto Rickshaw Battle

Our business plan was adjudged the best and the project overall finished second.

MAY 2011

Challenge Bibendum

The only Indian team to successfully participate in Challenge Bibendum organized by Michelin in Berlin.



APRIL-MAY 2014

FSAE Hybrid - USA

First Asian team to participate. Stood 9th in the competition bringing back the Fan Favourite Award.

SEPTEMBER 2015 FSAE Electric - Italy

First venture into pure Electric cars after spending years in making Hybrid cars which made use of gas along with electricity for propulsion.



MILESTONES



SEPTEMBER 2016

FSAE electric - Japan

With improved car E-VOLVE v2 we bagged ROOKIE AWARD in the Electric Vehicle category

SEPTEMBER 2017
FSAE electric - Japan

We were placed 6th in business presentation in the electric category with our new car Chronos



JANUARY 2018

FSEV Concept Challenge - India

Participated in the electric car concept challenge and finished 5th in cost and sustainability, 6th in business presentation and 10th in design evaluation and 8th overall.



FEBRUARY 2018
Formula Green - India

This time with an improved Chronos, we bagged 3rd place in the design presentation, business presentation and cost presentation and finished 4th overall

3B

WHY SPONSOR US?

FSAE is backed by Automotive giants like Fiat Chrysler Automobiles, Ford Motors, Toyota and companies like LG Chem, Eaton, Bosch, etc.

The event generates a lot of media attention, brings together industry leaders and thus presents a lot of scope for sponsors to forge corporate relationships with other companies

Your company name and logo will be displayed on the car, team's social media and also on our apparels

Opportunity to closely interact with students from multi-disciplinary background and identify talent for better recruitment into your company

TECHNICAL SPECIFICATIONS

1. Power train:

65hp 3-phase induction motor
7500 rpm, 111Nm peak torque
CURTIS motor controller



2. Accumulator:

Accumulator voltage : 96V
Thirty cells in series, Li-ion cells with nominal voltage of 3.2V and peak voltage of 3.6V
Passive BMS (Battery Management System) designed in house

3. Infotainment:

Seven inch LCD display
Cloud connectivity under development



4. Ergonomics:

Dashboard
Glass fiber insert seat



5. Upright:

CNC Machinery 6061 Aluminium
Integral Caliper Mounts

6.Body:

Space-frame chassis made from
AISI 4130 steel
Aerodynamic Glass Fiber Bodyworks
with additional structures



7. Wheels:

175/60-13 Bridgestone Wet Tyres
GTR Sports Mag Wheel



8.Drivetrain:

Limited slip Torsen Differential
Driveshafts: Alloy steel with CV joint
Chain drive (Duplex chain)



9. Suspension:

Double Wishbone-unequal length,
non-parallel push rod actuated
spring/damper for both front and
rear.



10. Brakes:

Disc brakes
Apache 180 rtr calipers and disc.



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	2 LAKHS AND ABOVE.	1.5 LAKHS AND ABOVE.	1 LAKH AND ABOVE	75,000	50,000	25,000	10,000	
TITLE SPONSORS	✓							NAME TAGGED WITH THE TEAM NAME IN ALL EVENTS.
LOGO ON CAR	✓	✓	✓	✓	✓	✓		LOGOS ON THE CAR BODY (BY SCALE*)
LOGO ON APPARELS	✓	✓	✓	✓	✓	✓	✓	LOGOS ON SHIRTS,PULLOVERS*
SOUVNIRS FROM THE VENUE COUNTRY.	✓	✓	✓					SPECIAL GIFTS FROM THE COUNTRIES WE VISIT FOR EVENTS
SCALED MODEL OF THE CAR.	✓	✓						DESIGNED SCALED MODEL OF OUR CAR..
LOGOS ON SOCIAL MEDIA.	✓	✓	✓	✓	✓	✓		SHOUTOUT ON ALL SOCIAL MEDIA PLATFORMS*
LOGOS ON WEBSITE.	✓	✓	✓	✓	✓	✓		SPEICAL MENTIONS ON HOMEPAGE OF OUR WEBSITE.
MOMENTO.	✓	✓	✓	✓	✓			GIFTS TO EXPRESS OUR GRATITUDE.
LEAFLET MENTIONS	✓	✓	✓	✓	✓	✓	✓	LOGOS ON THE LEAFLET HANDOUTS
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LOGOS ON POSTERS.	✓	✓	✓	✓	✓	✓	✓	POSTERS USED FOR DISPLAY AND EVENTS.
LOGOS FOR INDIVIDUAL POSTERS.	✓	✓	✓	✓	✓			SEPARATE POSTERS FOR ALL EVENTS AND DISPLAY
POSTER IN WORKSHOP	✓	✓	✓	✓				POSTERS FOR ENTIRE SEASON.

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