



TEAM CHIMERA



**OFFICIAL FORMULA
STUDENT ELECTRIC
TEAM OF R V COLLEGE OF
ENGINEERING**

TEAM BROCHURE 2022



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**India's premier student
fomula hybrid and electric
team.**

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WHO R V?

OUR TEAM

Team Chimera is Formula Student Design Team from R V COLLEGE OF ENGINEERING which is actively involved in the design and formulation of Formula style electric race cars. The Team strives to perfect every design and develop prototypes, many of which participate in the Formula SAE series held all over the world. Started in the year 2006, the team initially began with the design and development of hybrid automotive technology, but has focused its attention towards the development of Formula type electric vehicles.



ONGOING PROJECT

The team is now completely focusing on building a formula style electric car from scratch. The engineering design was ranked 5th in the recently conducted Formula Student Concept challenge 2021. This car will be participating in the Electric category of Formula Bharat 2023 and possibly other international events.

THE EVENT

FSAE

This competition requires teams to design and produce a small formula-style racing car. The competition also focuses on overall aspects that come into play while designing and manufacturing a formula car, i.e the car design and concept as well as cost are other key factors while scoring teams. The event not only drives students to hone their engineering design skills but also look into cost cutting and effective marketing of the car. This event helps students critically identify potential problems, assess them and take action in order to mitigate them.

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

Static events include the following.

1. ENGINEERING DESIGN EVENT

The team showcases the technical aspects of the prototype and how the car is unique compared to the competition.

2. COST AND MANUFACTURING EVENT

The team needs to prepare a detailed report of the overall cost of manufacturing the prototype. This event also requires the teams to be accurate on their cost estimation for all the components used.

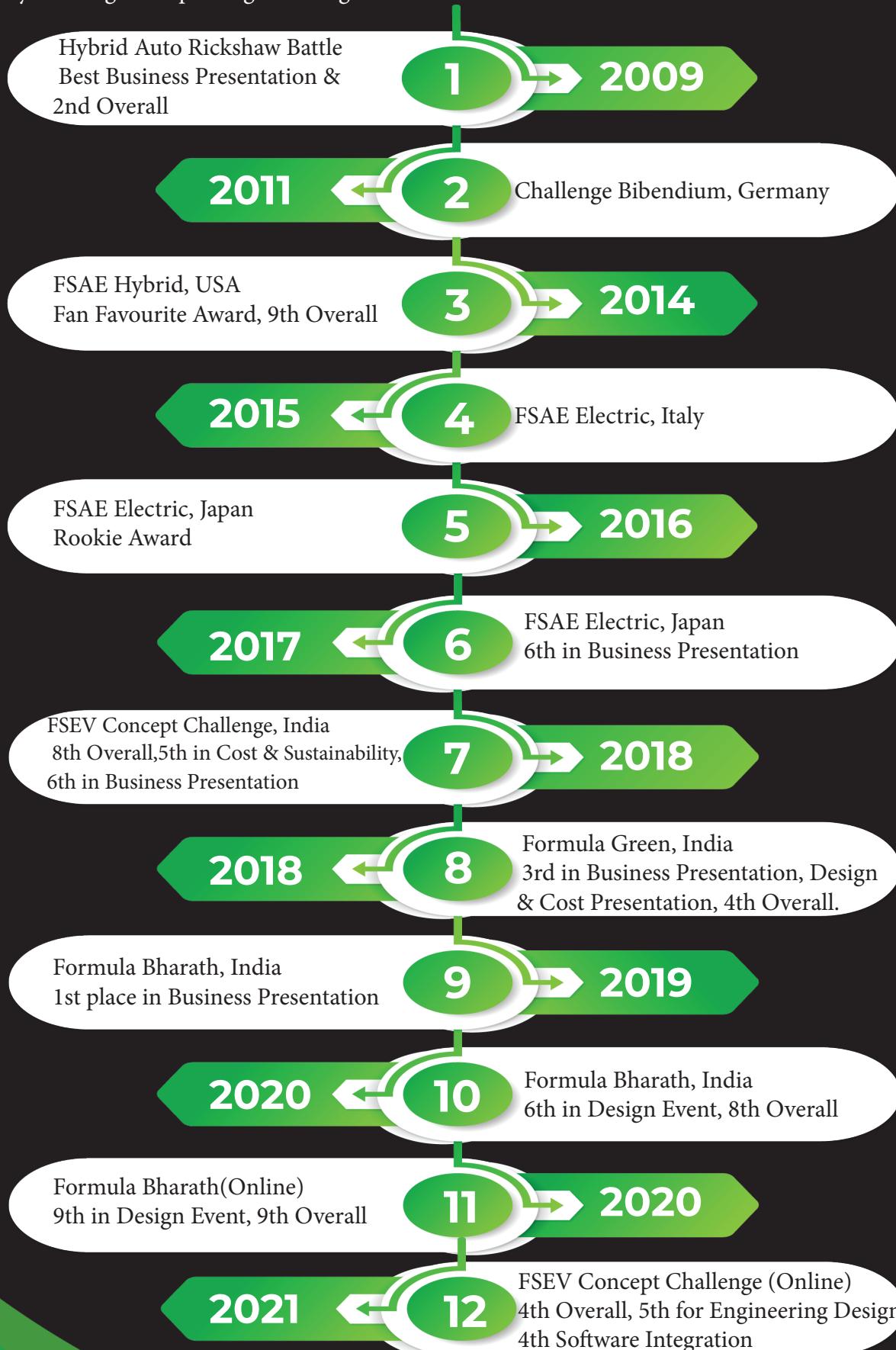
3. BUSINESS PLAN PRESENTATION EVENT (BPP)

The team needs to effectively pitch their business development plans and also provide details on how they would plan to market the product effectively.

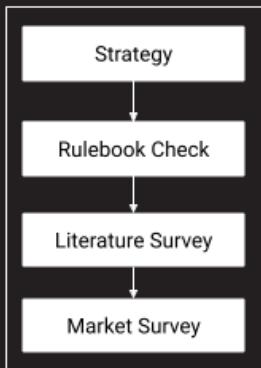


MILESTONES

The Team has been consistently participating in various national and international competitions since 2009, persistently working on improving our designs each time.



THE PLAN

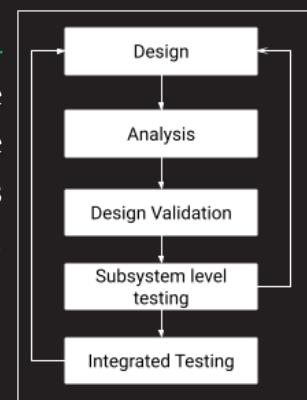


PLANNING

This phase generally involves the doing the initial due diligence i.e, literature survey, market survey and thinking the overall strategy and framing a timeline for the project.

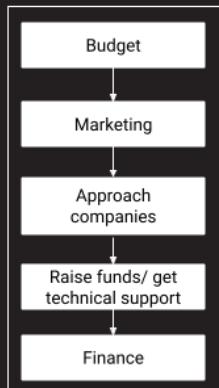
DESIGN

This phase involves the initial design of the components which are split according to sub-systems. Hand calculations are done for the circuits and the same are simulated on various softwares to verify it's working. Then it is extensively tested on breadboards and perfboards.



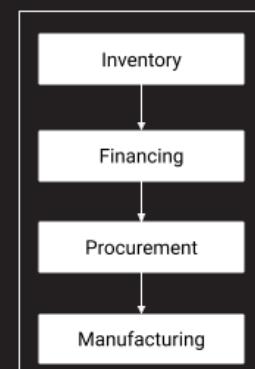
FINANCING

The overall budget of the project is drawn up. The project is financed via various streams. This phase involves raising monetary technical sponsorship from corporates and private contributors. This also includes financing for procuring components, event registrations, to name a few.



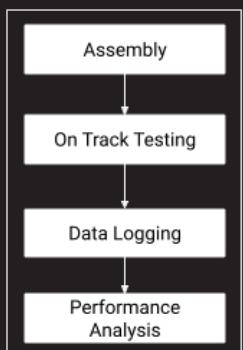
PRODUCTION

Here the funds are allocated based on the designs of the respective sub-systems after taking inventory of the components at hand. If funds available aren't sufficient then designs are modified to cut costs (generally the last option). The components are then procured and PCBs are then manufactured.

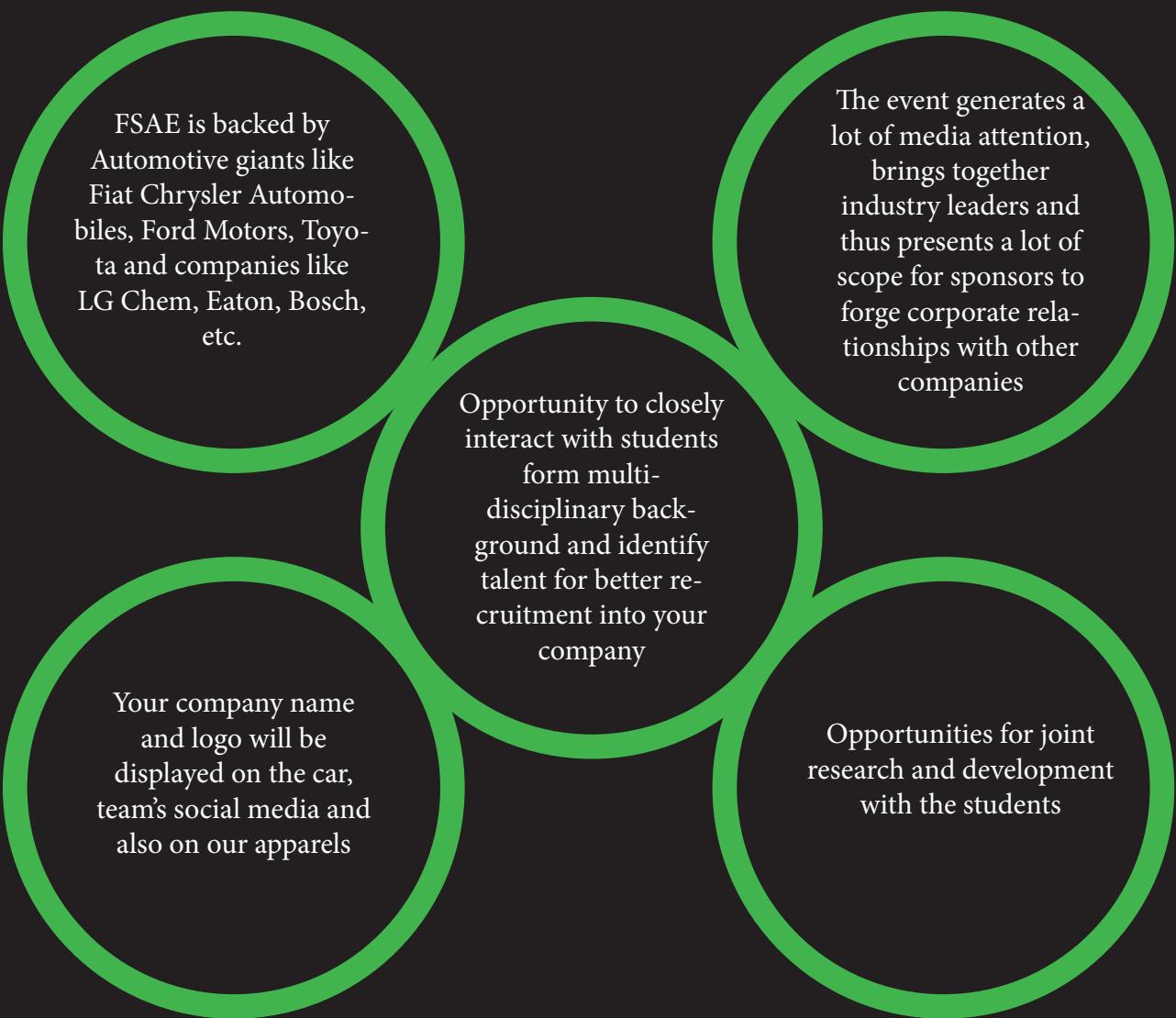


POST-PRODUCTION

This phase involves the assembly of the car and then extensive testing on track. The data logged is then analyzed and the car systems are then tweaked to ensure peak performance.



WHY SPONSOR US?



TEAM'S AGENDA

Team Chimera, at its core, believes that the automotive industry will be powered by sustainable energy in the future, and works to accelerate the transition from combustion vehicles to hybrid/electric vehicles by building efficient formula electric cars.

SUPPORT

Although the College grants us a workshop, faculty advisors and technical support, we rely on technical and monetary sponsorship from corporate and private contributors to support our project.

COPING WITH THE PANDEMIC

HOW IT ALL CHANGED

Millions of us are struggling to find normalcy in the age of COVID-19. With the nationwide lockdown and COVID 19 restrictions in place, it was very difficult for the team to access the workshop.

HOW WE DEALT WITH IT

But this couldn't stop us from doing what we do! We continued to participate in virtual competitions and worked to improve our skills and knowledge regarding electric vehical technology. As passionate automobile engineers, we shifted entire focus towards R&D of the vehicle.

During the fourth quarter of 2020, the team participated 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 and overall marketability. This event was made virtual due to the prevalent situation at that time.

During the third quarter of 2021, the team participated in FSEV Concept Challenge (FSEV 2021) which is an event that provides teams with an opportunity to conceptualize and design a Formula Student Electric Vehicle Powertrain Package. This event is for teams aiming to build a new prototype for the next season. **The team bagged 4th place overall amongst the 31 teams that participated.**

STEPS TOWARDS THE NEW NORMAL

The Team is going to take the following steps once students are back to college workshop this semester.

STEP 1



Train Freshmen

It is the duty of seniors of the team to train new joinees and transfer all the practical skills required to build an electric car from scratch.

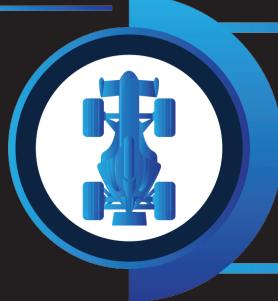
STEP 2



Fund raising

The overall budget of the car is placed. Team works to raise monetary/technical sponsorship from corporates and private contributors.

STEP 3



We build and race!

The team would work on bringing their designs to life and participate in national/ international Formula Student competitions.

SPONSORSHIP PACKAGE

WE NEED YOUR SUPPORT

Our sponsors are one of the key reasons for the success of the team. The amazing support we receive from the sponsors is what keeps us driven. We accept monetary or technical support. Be a part of our team today!

	Title Sponsors	Platinum Sponsors	Diamond Sponsors	Gold Sponsors	Silver Sponsors	Bronze Sponsors	
	2 Lakhs and above	1lakh - 2lakhs	75k- 1lakh	50-70k	25k-50k	25k and below	
Title Sponsors							Name tagged with team name in all events
Individual posters							Separate poster for events and displays
Logos on apparels							Logos on tshirts and pullovers
Logos on car(Nose)							Logos on front portion of car
Individual posts on social media / articles							Shout outs from social media platforms
Logos on website							Special Mentions on Homepage of our website
Logos on poster							Posters used for display and events
Leaflet mentions							Logos on leaflet handouts
Brochure mentions							Logos in the official brochure for presentations
Momentos							Gifts to express gratitude
Souvenirs for the venue country							Special gifts from countries we visit for events
Logos on car(Side pods)							Logos on side portion of car

ESTEEMED SPONSORS

WE THANK OUR SPONSORS!

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ICC**

GOLD SPONSORS

ZUKEN® **maxon**

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TECHNICAL SPONSORS

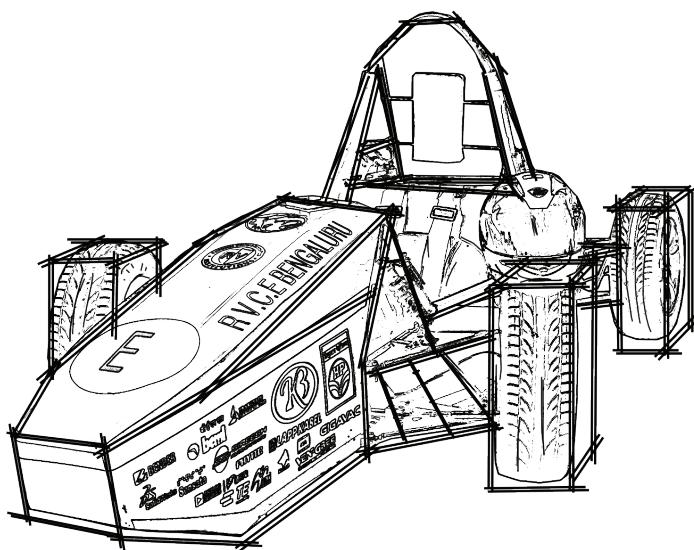


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