

K.J. Somaiya College of
Engineering, Vidyavihar

Sponsorship Proposal



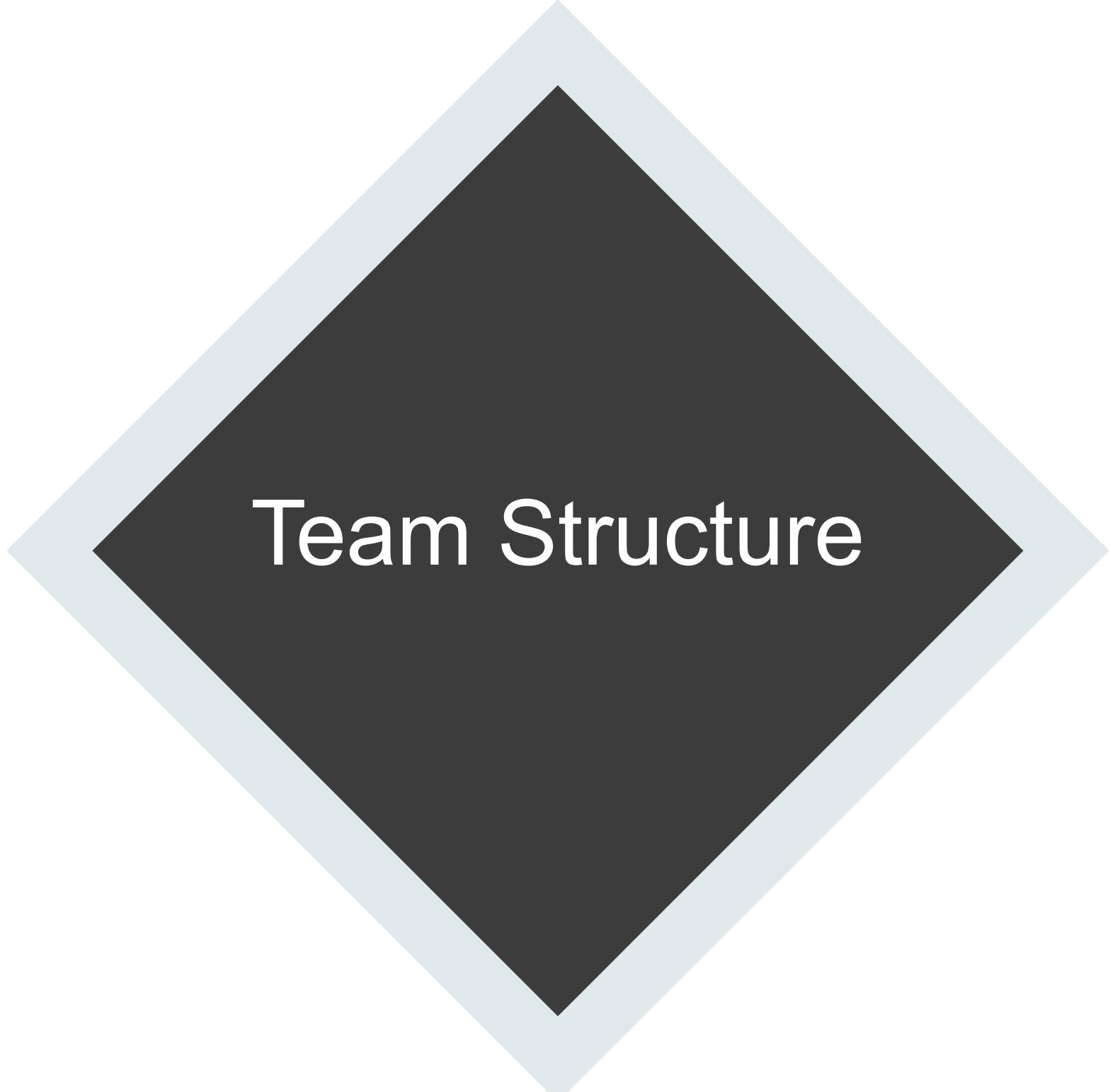
About Us



Team Onyx India is a student-run, non-profit collegiate **Aero Design Club** at K. J. Somaiya College of Engineering, Mumbai, India. We build RC Model aircraft and participate in various Aero Design competitions like **SAE Aero Design East**, **Boeing IIT National Aeromodelling Competition**, and other international as well as national level competitions.

Contents

- 1 Team Structure
- 2 Planning Stages
- 3 Timeline and Budget
- 4 Marketing Incentives
- 5 Gallery



Team Structure

Our Brains

Nadeem Noor
Team Captain

Nadeem, the paramount member of the team, oversees all the decision making and handles every aspect of the work that is happening at all times. The sheer number of times Nadeem has used his innovative thought process to get the team out of rough situations is simply astounding.

Arpit Shah
Technical Lead

The intellect and the driving force behind our recent success. Arpit strives to derive the best performance in is ability. He is also the Lead in Designing and makes sure he attains perfection in everything he touches.

Our specialists

Saurabh Shetake

Structural Lead

Saurabh is the Structural Lead of Team Onyx India. With immense knowledge and accurate calculations he makes sure that the every model is structurally sound to attain the required flight performances.

Raj Mandal

Marketing Lead

Raj handles all the operations and decisions in the marketing sector. His work ethic and professionalism helps Team Onyx to be supported by many companies and firms.

The start of our dream

Team Onyx India was founded in 2011 with the vision of promoting the field of Aerospace Engineering and providing a foundation for numerous students that aspire to work in the field of aviation



Our history

2011

Born

Team Onyx India was founded by a group of Aviation Enthusiasts who wanted to make the field more approachable for other like-minded people.

2012

Growth

The Team participated in International Competition at its first year and attained the 1st rank in India.

2014

Innovation

The team went through major transitional changes and adapted to new scenarios as we also started competing in Boeing National Competition at IIT, Bombay

Still growing

2016

Optimize

The team set in motion a long term plan to be the best in the world, and for that the team targeted SAE India Southern Section as the main goal and optimized design and fabrication skills to achieve the goal.

2018

Success

The team secured 1st and 3rd rank in different classes in the competition and was awarded for best design report and technical presentation.

2019

Now

The team participated in SAE International, Texas and was able to secure 15th in the world out of many teams from prestigious universities. The team also won the accolade of being the best Project Management team.

2020

Future

The team is now focused on SAE International 2020 which will be held at Lakeland, Florida. The team will use all the previous years of experience and commit to stand among the best teams in the world.

SAE India Southern Section 2018

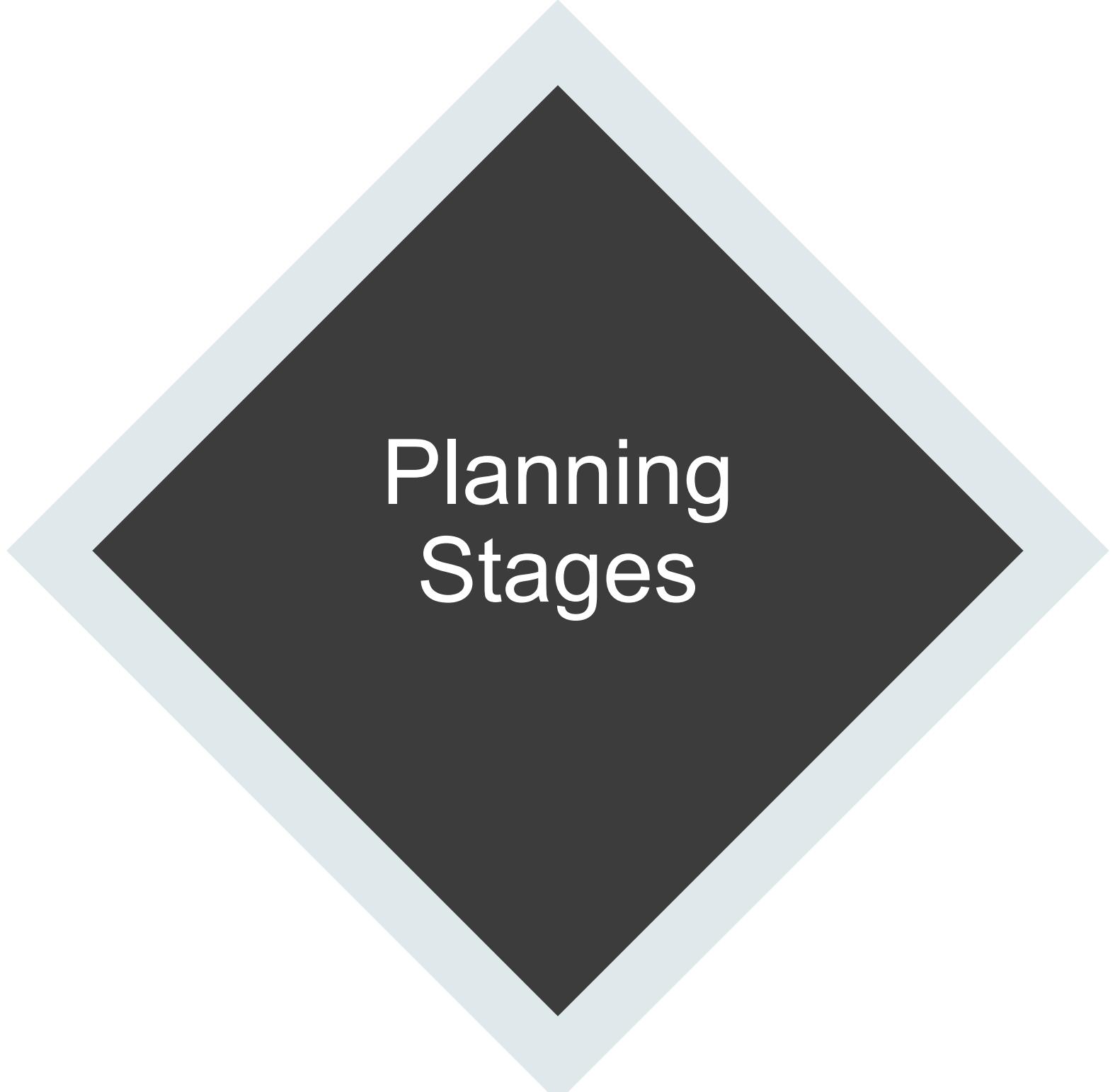
In 2018, Team Onyx India had participated in SAE India Southern Section competition where the team won accolades of “Best Technical Presentation” and “Best Design Report”.



SAE International, Texas 2019

In 2019, Team Onyx India participated in SAE International, Texas after our successful venture in SAE India. We were able to secure the rank of 15th in the world and 3rd in Asia Pacific.





Planning Stages

Research and Development

The team looks to make innovative and aesthetically pleasing designs in order to make the aircrafts stand out from the rest of the competition not only in looks but also in performance. The team also spends a lot of time researching new techniques for more efficient work.

Numerous brainstorming sessions occur at frequent intervals so that we are always improving on various aspects and make sure that work is always on time and performance is optimized.

Brain storming

Discussion

Regular Discussions with members and different departments of the team help in effective communication and role realisation is attained at a very early stage which helps in the long run.

Optimisation

The team always strives for optimum results and hence regular checks for optimisation are done in both design and fabrication aspects.

Drafting and Assembly

Finalisation of design and assembly ideas and using CAD Softwares to prepare a 3D model.





Prototyping

Fabrication of Prototyping is done with attention to every intricate detail and find flaws in the process of fabrication in numerous aspects.

Test Flights are conducted so that real-time flight performance is calculated and the team pilot gets a feel of the aircraft who then suggests changes for better performance.

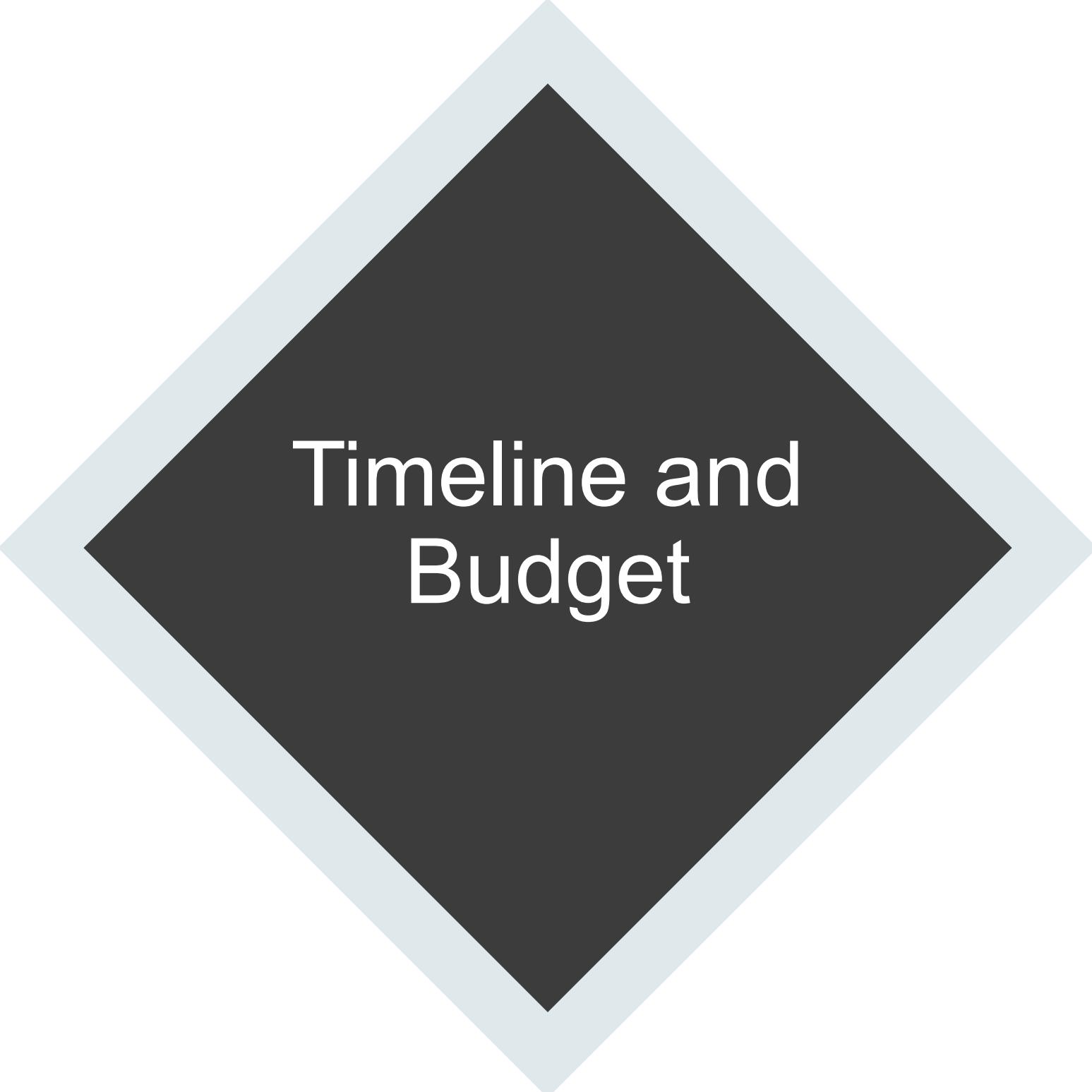
Test Flights





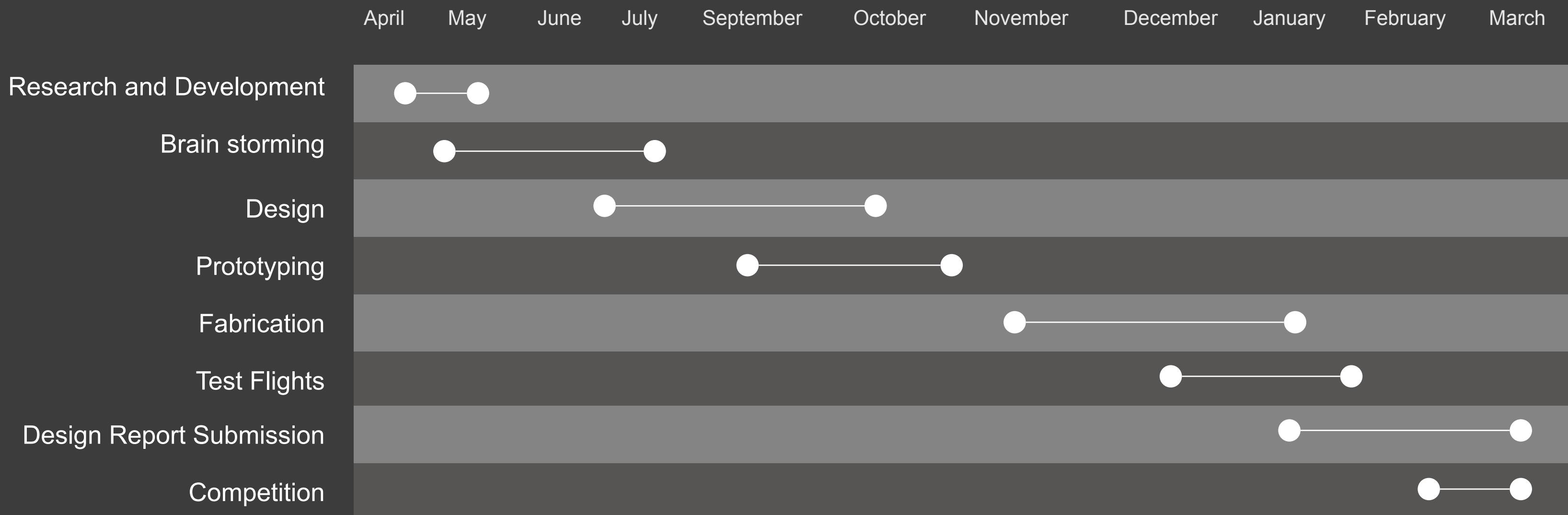
Evaluation

All the above stages lead up to a final assessment and evaluation. The evaluation process is done after positive results from test flights are achieved. If the evaluation results are positive the team focuses on other fields such as Design report and technical presentation. If the evaluation results are not up to par, then the team goes back to optimization and design changes.



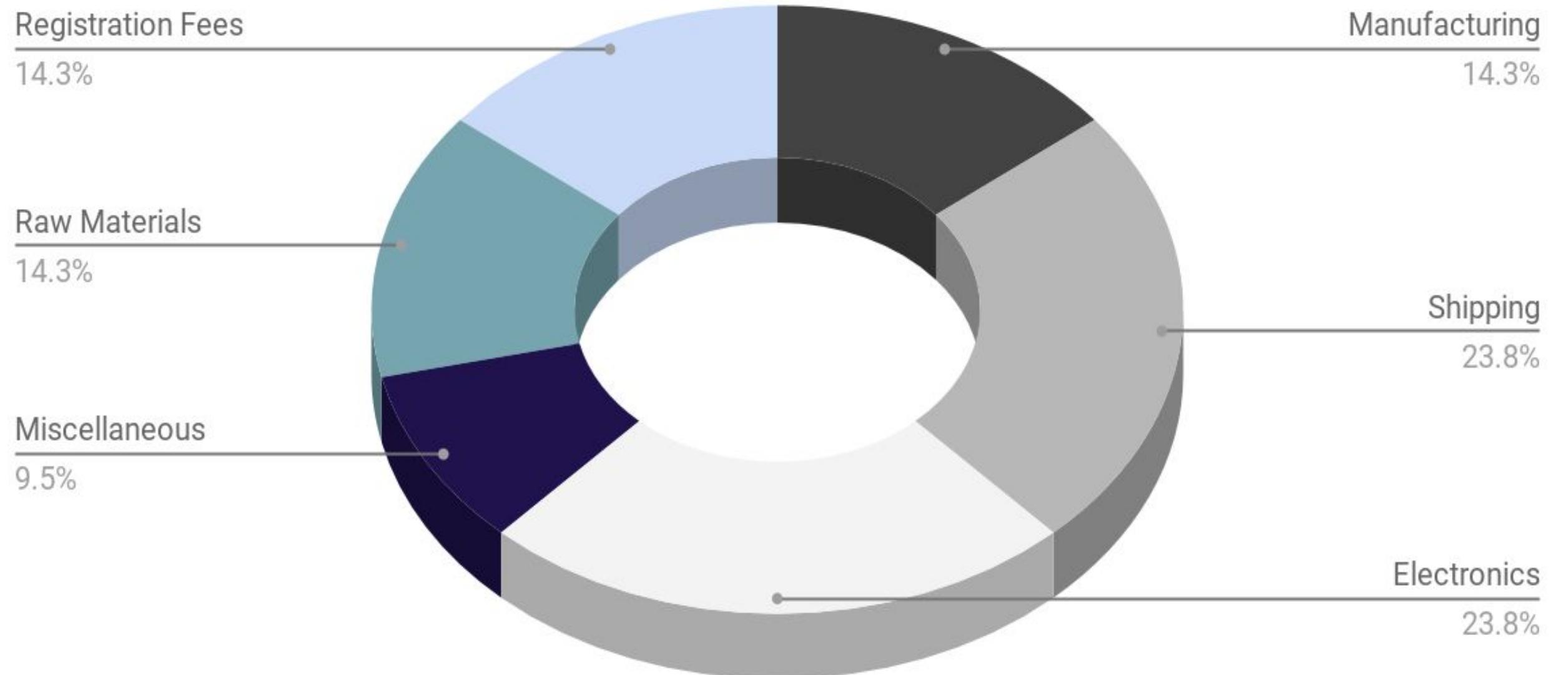
Timeline and Budget

Timeline



Budget Distribution

Budget Distribution



Color	Field of Expense	Cost
Dark Gray	Manufacturing	112500
Light Blue	Raw Materials	120000
Dark Purple	Miscellaneous	75000
Light Blue	Registration Fees	125000
Dark Gray	Shipping	175000
White	Electronics	170000



Marketing Incentives

Technical Events

Team Onyx India demonstrates and interacts with various industry professionals in numerous technical events to showcase our aircraft models. In such events we interact with professionals and showcase our models.



Aero-Modelling Workshops

Team Onyx India conducts various types of workshops on Aero-Modelling in different number of colleges throughout the year. This workshop aims at audience on a massive scale to promote this field .





Dedicated Sponsored Posts via our social network sites

Representation in numerous events

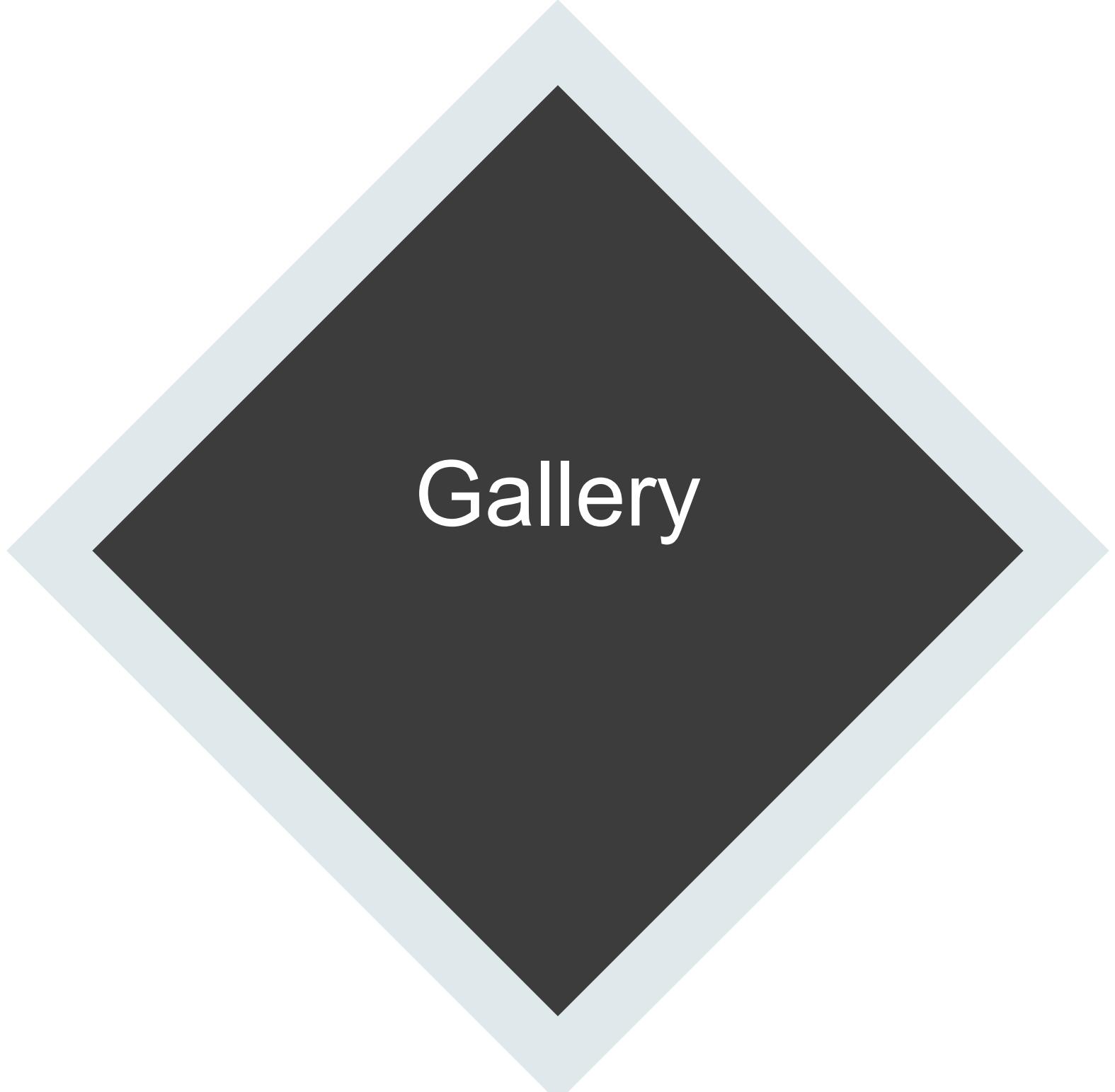
Other events such as competitions in colleges such as IIT Mumbai, IIT Kanpur and other prestigious institutions. Other national level events such as MakerMela are also one of the many events that we partake in.

Exposure Through Social Media

Our Social Media accounts act as centre stage to interact with other teams and professionals. Our social media accounts will provide exposure for your company and introduce the people to your services.

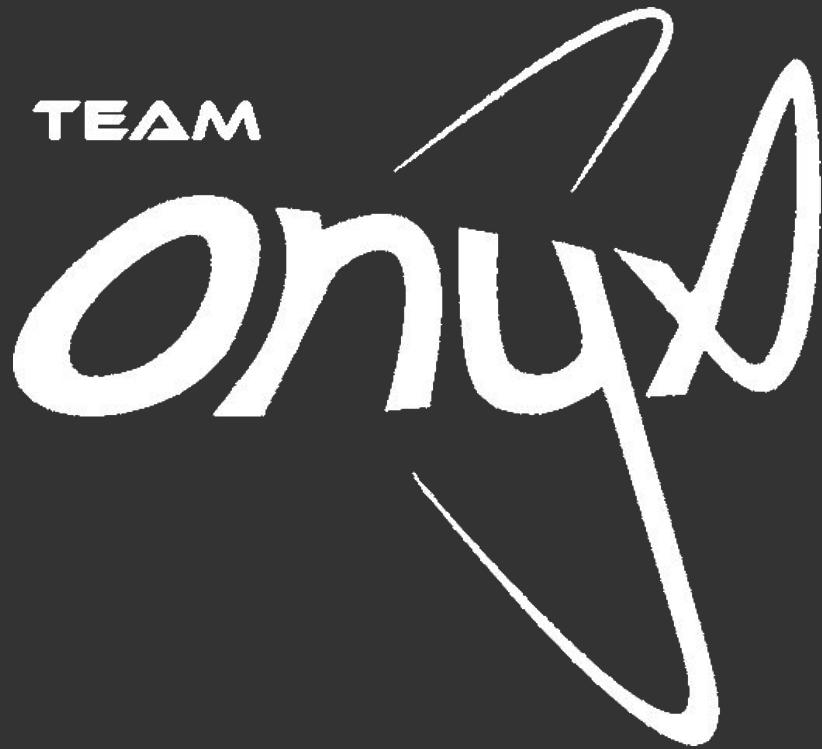


Team Onyx India with the Chief of DRDO at K.J. Somaiya College of Engineering



Gallery





Get in touch with us!

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