



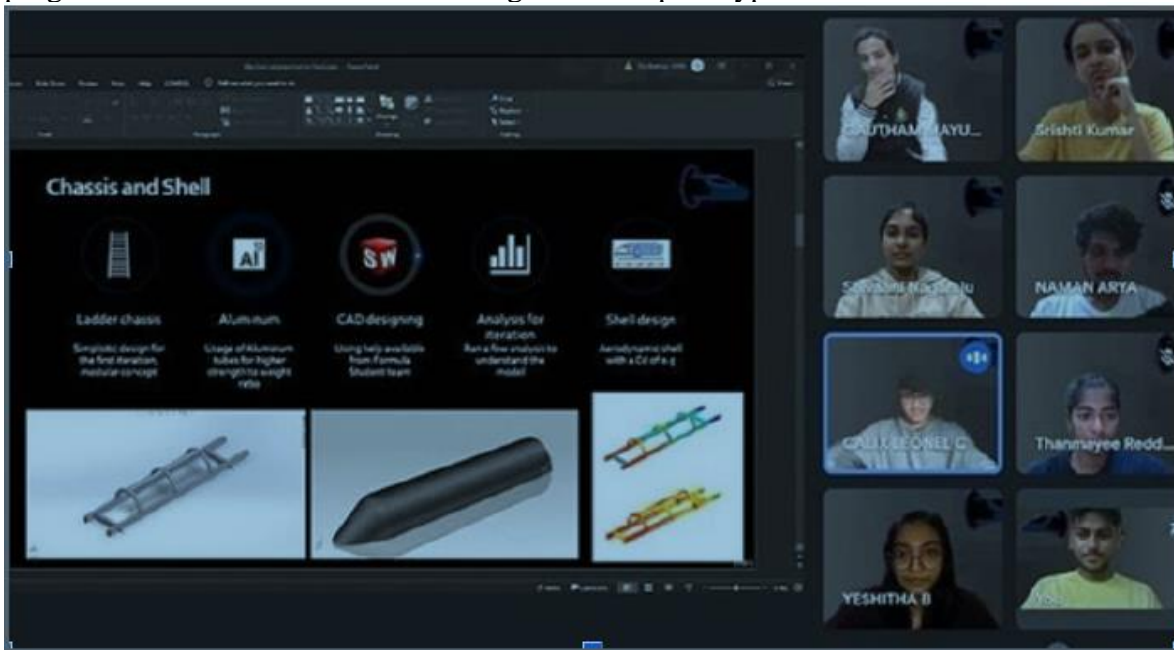
## Innovative Clubs Activities

### Team Ashwa Racing



#### Finalists at European Hyperloop Week 2022.

The Hyperloop Team started the hyperloop project in 2019 and made their first debut in the first edition of European Hyperloop Week and since then they have made tremendous progress and have started manufacturing their first prototype.





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Autonomous  
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## Team Garuda



### **Events Conducted by Team Garuda in (2022-23):- RC CAR RUKUS**

- RC CAR RUKUS is a 8<sup>th</sup> Mile Event organized by Team Garuda
- Teams from all over Karnataka Participated in the race team.
- To ensure the highest standards of evaluation, we invited two distinguished industry experts to officiate as judges for the event.

### **Engagement with LOG 9**

- Furthermore, during the year, we proactively engaged with LOG 9, a prominent battery manufacturing company with possible collaboration



## Ham Club



### **Attenuator Building Workshop 2023:**

On 11<sup>th</sup> February 2023, an Attenuator Building Workshop was conducted with great success in the IS Seminar Hall and ECE laboratories. The event, spanning from 9 am to 5 pm, attracted enthusiastic participants eager to delve into the world of attenuator construction. Attendees were introduced to the fundamentals of attenuators and their applications, gaining insights into how these devices are instrumental in controlling signal strength and minimizing unwanted interference. The workshop's highlights included hands-on experiences in designing and building attenuators, allowing participants to gain practical skills in this vital area of electronics. The interactive sessions and laboratory exercises made the workshop engaging and educational. Under the guidance of knowledgeable instructors, all participants had the opportunity to construct and test attenuators, ensuring that they functioned accurately and met specified criteria. The Attenuator Building Workshop received positive feedback from participants, demonstrating the effectiveness of the event in enhancing their understanding and expertise in this essential aspect of electronics engineering.





# BOEING IIT-2023



## CERTIFICATE

**RASHTREEYA VIDYALAYA COLLEGE OF ENGINEERING**

**BOEING IIT: NATIONAL AEROMODELLING COMPETITION**

**KALKI**

BOEING IIT-2023

Formerly Dantoli Computers

### 5. Detail design

In this phase the detail CAD of our aircraft was drawn.

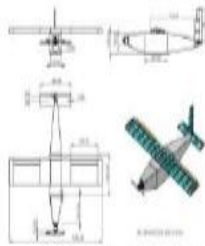


Fig.5: Three-view diagrams of the final aircraft



Fig.6: Exploded view of the aircraft

### 6. Manufacturing

We did detail design considering manufacturing in mind. We have used various materials such as foam and 1mm balsa sheets, 4mm acrylic, 3mm and 5mm carbon fiber rods, 4mm depron sheets and many others. The wing ribs were made from a combination of balsa and acrylic. The structural members of the wings are majority of the 3mm and 5mm carbon fiber rods. The fuselage had few acrylic bulkheads and the main firewall is also made up of acrylic. Cyanocrylate and hot glue gun were used as adhesives. The fuselage skin is made using depron sheets. While designing we made the horizontal and vertical tail using balsa but while manufacturing, we changed the balsa ribs and tail sheet of carbon fiber rods as instead, we made the tail using depron sheets. The stopping mechanism has single door made up of depron which is opened and closed based on the signal sent to it.

**BOEING CERTIFICATE OF PARTICIPATION**

THIS IS TO CERTIFY THAT

Mr/Ms. SHRANI KUMAR CHOLAKURU

of my college \_\_\_\_\_ participated in

**Boeing IIT National Aeromodelling Competition**  
at South Zone event held at IITDM Kanchiipuram  
on 27th & 28th January 2023.

**BAIBHABI PATNAIK**  
CO-CURRICULAR AFFAIRS SECRETARY

**RATNA KUMAR**  
CO-CURRICULAR ADVISOR

**BOEING CERTIFICATE OF PARTICIPATION**

THIS IS TO CERTIFY THAT

Mr/Ms. Yashwanth H

of my college \_\_\_\_\_ participated in

**Boeing IIT National Aeromodelling Competition**  
at South Zone event held at IITDM Kanchiipuram  
on 27th & 28th January 2023.

**BAIBHABI PATNAIK**  
CO-CURRICULAR AFFAIRS SECRETARY

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