THE MISSION

AS A TEAM, WE AIM TO GRAB THE HIGHEST LAURELS FOR THE COUNTRY AND CONSTRUCT **AERODYNAMICALLY EFFICIENT** AIRCRAFT. WE TEND NOT ONLY TO **ACHIEVE OUR MISSION STATEMENT** OF THE COMPETITION BUT ALSO TO LEARN AND GATHER DEEP KNOWLEDGE ABOUT AVIONICS AND **AERONAUTICS FOR FURTHER FIELD** DEVELOPMENT. WE WORK WITH UTMOST PASSION AND FOCUS TO MANIFEST AIRPLANES WHICH ARE CAPABLE OF MORE THAN

SAE AERO DESIGN

COMPETITIONS.

THE SAE AERO DESIGN COMPETITION IS A REAL-WORLD DESIGN CHALLENGE DESIGNED TO COMPRESS A TYPICAL AIRCRAFT **DEVELOPMENT PROGRAM INTO** ONE CALENDAR YEAR, TAKING PARTICIPANTS THROUGH THE SYSTEM ENGINEERING PROCESS OF BREAKING DOWN REQUIREMENTS. IT EXPOSES PARTICIPANTS TO THE NUANCES OF CONCEPTUAL DESIGN. MANUFACTURING, SYSTEM INTEGRATION/TEST, AND SELL-OFF THROUGH DEMONSTRATION.

#PropelledByPassion



https://bit.ly/Falcons_linkedin



https://bit.lyFalcons_Instagram



https://bit.ly/Falcons_Website



TEAM CONTACT

Atishay Jain Team Captain +91-9811065293





WHO WE ARE

Assailing Falcons is one of the most distinguished members of SAE International. The team brings together engineers from a variety of backgrounds that are involved in aircraft design and manufacturing, providing them with professional expertise and hands-on knowledge. The team's goal is to allow students to better themselves and hone their skills by embarking on a journey of learning, technical experience, and achievement.



OUR ACHIEVEMENTS

INTERNATIONAL

- 1ST IN ASIA FOR CONSECUTIVE 9 YEARS
- (2019,2021,2022)
- 1ST IN TECHNICAL PRESENTATION,INDIA(2019,2020)
- 1ST IN MAXIMUM PAYLOAD LIFTED
- **(8)** 1ST IN MAXIMUM ALTITUDE REACHED
- 3RD IN FLYING ROUND 2020

NATIONAL

- 1ST IN INDIA (2012,2014,2015,2016,2017,2018)
- 1ST IN MAXIMUM PAYLOAD LIFTED,
- **(S)** 1ST IN MAXIMUM ALTITUDE REACHED
- 1st AMONGST STUDENT TEAM'S IN VIT (2015,2016)
- 📵 2ND IN BITS PILANI EXPO



WHY US?

Our team started in 2010 with a dream, to become a forerunner in the undergraduate aero design space. It has been one of the oldest aviation teams in VIT, Vellore. Our dedication and strive for improvment have made it possible to defend our position of No.1 in Asia for 8 years. This journey has been possible with the help of our sponsors and their continuous support. The help and motivation offered by the sponsors gave our team the wings it needed to soar high in the sky.

By participating in one of the world's biggest the aero design competition, we are surely noticed and known by students of our university and people around the world.We ensure the satisfaction of our sponsors by branding them at various national and international aviation events.

OUR SPONSORS





SIEMENS















Matlab





MISSION STATEMENT



THE OBJECTIVE OF ADVANCED CLASS IS TO DESIGN A SUITE OF SYSTEMS THAT CAN SUPPORT THE FIGHT AGAINST WILDFIRES THROUGH THE DELIVERY OF WATER AND PARTS FOR A GROUND VEHICLE. THIS CLASS IS FOCUSED ON MISSION SUCCESS THROUGH UNDERSTANDING OF DIVERSE REQUIREMENTS, SYSTEM-LEVEL ENGINEERING, AND ROBUST EXECUTION.

FLAGSHIP 2022



TRIDENT IS A SINGLE MOTOR
PROPELLED MID WING AIRCRAFT
WITH A RECTANGULAR PLANFORM,
AIRFOIL SHAPED FUSELAGE AND
SPLIT END-PLATE WINGTIPS,
DESIGNED TO LIFT 40.47
POUNDS.TRIDENT FLIES WITH A
CRUISING SPEED OF 43 ft/s .IT IS
DESIGNED TO DEPLOY A PADA WHICH
DELIVERS A FULLY AUTONOMOUS
GROUND TRANSPORT VEHICLE.

FEW OF OUR PAST FLAGSHIPS



TRIDENT
RANKED 3RD WORLDWIDE 2022



AIRAVAT
RANKED 3RD WORLDWIDE 2020



NAUTILUS
1ST BI-PLANE MANUFACTURED BY
FALCONS

HOW TO SPONSOR US

TECHNICAL SUPPORT



SOFTWARE SUPPORT IS ESSENTIAL IN
THIS VIGEROUS AND COMPLEX
COMPETITION

PRODUCT SUPPORT



BY PROVIDING US WITH ESSENTIAL PARTS OF THE RC AIRCRAFT

MONETARY SUPPORT



PRIORITIZED SPENDING AND COMPLETE
TRANSPARENCY ASSURE FINANCIAL
STABILITY