SAEINDIA
Society of Automotive Engineers INDIA

AEROTHON
2023

SAEINDIA
AEROSPACE

AeroTHON | BENGALURU
2023

Uncrewed Aircraft System (UAS) Design, Build and Fly Contest

#AeroTHON2023

About AeroTHON

Indian government is on a mission to make India, a Uncrewed Aircraft System (UAS)/Drone hub by 2030 under Atmanirbhar Bharat Abhiyan. India's UAS market is estimated to be INR 500 billion (USD 6.8 billion) in next five years.

UAS are being used across diverse areas such as defense, construction, infrastructure, mining, oil & gas, telecom, agriculture/farming, media & entertainment, law enforcement, surveillance, security, safety, disaster management, geospatial mapping, land survey, the progress and condition monitoring through aerial photography and thermal imaging. Expansion of the application is expected in a widespread Consumer market synchronizing with the pace of progress in technological innovations with reduced costs. Drone-facilitated last mile delivery for the retail. healthcare and logistics sectors will soon become the reality.
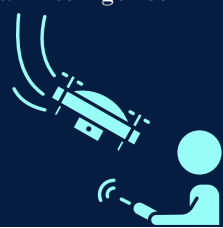
To make the students industry ready for the development of UAS, SAEINDIA's Aerospace Forum has been organising AeroTHON, a competition of design, build and Flying of a UAS, nurturing hundreds of teams in the past three years. With the astonishing success of AeroTHON2021 and 2022, AeroTHON2023 has been organized to provide an opportunity for the students to develop their skills in designing, building, flying a Uncrewed Aerial Vehicle (UAV) with a insightful mentorship from industry professionals. The event has two phases; a design phase and a concluding phase of build and flying of UAS meeting the specified mission requirements in a flying event.

SAEINDIA AEROSPACE FORUM

The Aerospace Forum is a team of dedicated individuals representing a broad spectrum of knowledge and skills in the aerospace industry who defines the strategy and direction of the forum. Overall objective of the group is "To develop a strong community of interest, leading to a healthy aerospace ecosystem in India". Numerous events and activities were organized by the Aerospace Forum over a decade, some independently and a few in collaboration with the like minded groups.

SAEINDIA team has been collaborating with SAE International for the development of aerospace standards. The Indian team is actively involved in in G-31 Electronic Transactions for Aerospace (ETA) technical committee, G-34, the Artificial Intelligence in Aviation Committee and HM-1, the Integrated Vehicle Management committee.

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OBJECTIVES

- To inculcate an innovation mindset among the student community in emerging technologies like Uncrewed Aerial Vehicles (UAV)

- To Incubate and nurture skills and capabilities of aero design in young minds and prepare them for Atmanirbhar Bharat in critical aerospace technologies.

- To provide a platform for Aero-passionate students to demonstrate UAV design expertise

- To help develop the next generation of entrepreneurs

CONTEST STRUCTURE

The contest has TWO Phases

Phase 1:
Design and Technical Presentation

- Innovative designs presentation from the participant teams
- Innovative designs evaluation by industry and academic experts
- Top 20 teams shortlisted for Phase 2

Phase 2:
Flight Test with a final presentation highlighting readiness to Fly and Awards

- Building the prototype of the UAV
- Technical presentation on the prototype and readiness to Fly the UAV
- Flight Test
- Awarding prizes to 7 teams

Key Event Dates

Key Event	Date
Registration open	20 Feb 2023
Registration close	20 Mar 2023
Phase 1: Design Report submission by students	04 Jun 2023
Phase 1: Presentation Submission	22 Jun 2023
Phase 1: Students present designs to Judges (Industry and Academic experts)	24 Jun 2023
Phase 1: Judges review reports & finalize scores	26 – 29 Jun 2023
Phase 1 Winners announcement	30 Jun 2023
Phase 2: Physical prototype build	01 Jul 2023 – 17 Nov 2023
Phase 2: Physical prototype inspection & Flying	18 Nov 2023
Phase 2: Flying competition	19 Nov 2023
Awards Ceremony	19 Nov 2023

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Sponsorship

Sponsor Category	Sponsorship Value	LOGO Presence					Stall Space at finals Venue	Social Media Posts	Webinar with Students
		Promo Graphics	Venue Branding	Rule Book	Event Collaterals	Prize Plaque			
Title Sponsor	Rs. 4,00,000	Large	Large	Large	Large	Large	18 Sqm	4	4
Co-Sponsor	Rs. 3,00,000	Large	Large	Large	Large	Large	9 Sqm	3	4
Associate Sponsor	Rs. 2,00,000	Medium	Medium	Medium	Medium	Medium	6 Sqm	2	2
Supporting Sponsor	Rs. 1,00,000	Small	Small	Small	Small	Small	Table Space	1	0
Start-up Sponsor	Rs. 50,000	Small	Small	Small	Small	Small	Table Space	1	0

Registration Guidelines

- **Registration Fee: Rs. 15,000** + 18% GST per team
- Teams can be formed with a minimum of 5 students and a maximum of 10 students of multiple disciplines with one faculty advisor.
- It is mandatory for participating students to become student members of SAEINDIA. It is encouraged to take up the membership under +1 scheme as membership status continues for one more year after the completion of graduation.
- Though not mandatory, Faculty are encouraged to become a Faculty Member of SAEINDIA and avail the benefits available for the faculty member of SAEINDIA.
- Visit: https://www.saeindia.org/become-a-member/ to sign up for SAEINDIA membership.

Sponsors

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VISIT OUR WEBSITE

https://saeindia.org/events/aerothon2023/