



FLOTANOMERS  
WE SPACE YOU



# CHALLENGERS

INVENT · INNOVATE · IMPROVISE



**SAHYADRI**  
COLLEGE OF ENGINEERING & MANAGEMENT  
MANGALURU



## OUR VISION

“ Inspired by Indian Airforce, saluting its Logo “नभः स्पर्शम् दीप्तम्”, We envisage “विज्ञानम् यज्ञम् तनुते” that “Science is Yajna and Yajna is Science. ”

## OUR MISSION

- To inspire and empower the young minds.
- To provide a challenging platform to exhibit technological talent.
- To breath in the space, traversing without wings, to recreate the glories of own of our Nation Bharat.

## About Sahyadri

& The Sahyadri College of Engineering Management, Mangaluru constantly strives to adopt and improve the teaching methods which vary from the mundane. Motto of the College is Project & Research based learning, grooming Entrepreneurial culture fostering holistic

development of students contributing to society getting them exposed through weekly invited talks from renowned Scientists, CEO's, COO's, industrialists, Internships value added courses.



## SAHYADRI INITIATIVES

The institution has supported students to participate in SAE BAJA, SAE SUPRA, SAE AERO competitions which help students to use their theoretical knowledge for practical applications. Students are qualified for SAE-BAJA, SAE Go Cart, SAE Formula Race, and SAE Aero Design Competitions. Motto of the institute is Project & Research based learning, grooming Entrepreneurial culture fostering holistic development of students contributing to society getting them exposed through weekly invited talks from renowned Scientists, CEO's, COO's & industrialists. A strong management support aiding project based learning through more than a crore of investment every year, facilitating funded research.

## About Challengers

Team started with a moto to implement the theoretical aspects of engineering to the real world applications. A few members from various disciplines grouped together with sole intention to learn the knowledge of physics. The process gradually brought more people to the team. The team started to grow by participating in several national level competitions conducted by IITs, NITs & other Elite institutions of our Nation. We have made our landmark wherever we made our debut. Along with our humbleness our reach flew to more heights. We work together to solve the extreme challenges of day today life, understanding the very basic problems, finding the apt solution for the difficulty faced by the contemporary world to make the future of the world more secure and safe. We are in the stage of growth finding the different horizons of science. The current team consist of 50 potential like minded people who have an unconditional love towards the real world engineering.

### FOUNDER



**Mohammad Anwar**

### COFOUNDER



**Probid J Panikkan**

### FACULTY ADVISOR



**Midhun Jyothis**



**OUR TEAM**

**TEAM MENTORS**



**Gerald K Antony**



**Gouse Khan M S**



**Amrutha Khandare**



**Rakshith Karumbaiah**



**Pranamyia A Y**



**Rajmuni Hombal**

**TEAM CAPTAIN**



**Meghana Shetty**

**VICE-CAPTAIN**



**Preethesh B**

**SECRETARY**



**Sakshi Kumari**

**TEAM MANAGER**



**Prayag Raj Singh**

**TREASURER**



**Ananya Shetty**

**LAB MANAGER**



**Akshay P N**

**EVENT CO-ORDINATOR**



**Abdul Shameer**

**DESIGN HEAD**



**Ann V Maria**

**PERMANENT MEMBER  
ASSOCIATE**



**Shanker A K**

**TEMPORARY MEMBER  
ASSOCIATE**



**Manish E S**

**ASST. EVENT  
CO-ORDINATOR**



**Amrutha K Moily**

## AEROPHILIA 2018

Aerophilia 2018 has given wings to innovative thinking to aero modelling enthusiasts there by igniting the passion for the future of Aeronautics in India. The motive behind organizing such a competition is to spread and teach the young talented minds to explore the new era of aeronautics to foster development of the nation. Two day competition was held at Sahyadri and the participating teams were expected to design a radio controlled aircraft with the limitations regulated in its dimension and the power system. The aircraft were validated by its maneuverability and maximum payload carrying capacity, which was tested in two successive rounds. Special attraction was the air shows by nationally and internationally reputed radio flyers.

IITs and NITs- the elite institutions participated in the competition. The valedictory functions which was held in the presence of our Minister Mr. Kimmaney Ratnakar, Minister of Education Gov. of Karnataka, Dr.Hansraj Alva renowned Physician of Mangalore, Mr. Aravind system Engineer for Light Combat Aircraft, Mr. Chinmey Electronics Engineer in Avionics System.



caption



caption



## WINNERS

### CHAMPIONS

**Keshav, Rajeshwari, Sanjay**  
ACS College of Engineering Bengaluru

### 1<sup>ST</sup> RUNNER UP

**Suraj KA, Aman Prakash, Deeksha, Nandan G A**  
ACS College of Engineering Bengaluru

### 2<sup>ND</sup> RUNNER UP

**Omkar Rao**  
Mount Carmel School Mangaluru

## OUR ACHIEVEMENTS



### SAE Aerodesign 2018, Florida

Team Challengers comprising of Manish E.S and Sandeep from I year participated for SAE International Aeromodelling East 2018 ( Florida).

### SAE Aerodesign 2018, California

6th place in Payload Lifting.  
7th place in Oral Presentation &  
Overall 9th place in the world

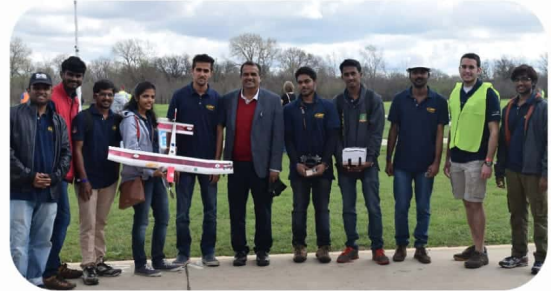


### Embedded Asia 2014

Secured 1st position in an international conference automotive embedded challenge at IISc, Bangalore.

### SAE Aerodesign 2016

Oral presentation -4th in the world  
Payload lifting 4th in the world  
Payload fraction.--6th in the world  
Final flight score- 10th in the world



### Visited Indian Institute of Science

Which is a public university for research and higher education in science, engineering, design, and management for an Technical event "Open day" on 10 march 2018.

### Tatva in NIT Calicut

These were participated in various technical events like Albatross, Death race, Aqua GT, Dirt race, Amazed, league of Machines, Hack-a-holic, The Debugger, Transpoter, Sky Scrapers, Bob the builder, MindKraft, Aqua Strike.



## VISITORS



**Ada E. Yonath**, is an Israeli crystallographer best known for her pioneering work on the structure of the ribosome. In 2009, she received the Nobel Prize in Chemistry for her studies on the structure and function of the ribosome, becoming the first Israeli woman to win the Nobel Prize out of ten Israeli Nobel laureates, the first woman from the Middle East to win a Nobel prize in the sciences, and the first woman in 45 years to win the Nobel Prize for Chemistry.



**Professor Serge**, Nobel Prize in Physics for ground-breaking “Experimental Method that Enable Measuring and Manipulation of individual Quantum System” a study of the particle of light, the photon. He obtained PhD from University of Paris VI. Haroche is a Professor at the College de France and holds the Chair of Quantum Physics. He has received Commander of the French Legion of Honor, the highest French order of merit for military and civil merits award.



**Dr. S.N.Omkar** is currently working as a Chief Research Scientist at the Department of Aerospace Engineering, Indian Institute of Science, Bangalore. His research involves both computational and experimental approaches. He has contributed significantly to the field of Helicopter dynamics. His research involves helicopter model development, system identification and control.



**Dr. Sudhir Mishra**, Distinguished Scientist & Director General (BrahMos), DRDO, Ministry of Defence and CEO&MD, BrahMos Aerospace, an India-Russia Joint Venture, is a Graduate of Government Engineering College, Jabalpur, M.Tech. in Mechanical Engineering from Indian Institute of Technology, Madras and Ph.D. from National Institute of Technology, Warangal.



**Commodore C.D.Balaji (Retd)**, Outstanding Scientist, the Director of the Aeronautical Development Agency (ADA) and Programme Director of the Light Combat Aircraft (LCA). He has been responsible for the design, development, building and flight testing of LCA(Navy) Prototypes At ADA, Bangalore As The Project Director. Cmde Balaji holds a BE in Mechanical Engineering and a Masters degree in Aerospace Engineering from the Indian Institute of Science, Bengaluru.



## PROJECTS

Every member of the team has their own interest and has done number of projects on field of interest. They have trained the juniors for the fulfilment and continuation of any undertaken projects. We have been carrying out several projects,

### AREA OF SPECIALIZATIONS:

- RC Plane
- Multi-Copter
- Space Balloon
- Nano Satellite

### ANNUAL EVENTS

Team conducts and hosts various technical events and awareness programmes for encouraging and promoting Aeronautics in our Nation. The team participates in various National and International Competitions.

The team organises a two-day National level Aeromodelling competitions "AEROPHILIA" for undergraduate students.

Its objective is to build a strong base for practical problem solving in the students as well as to build their R&D potential. Department of Project and Funding was launched to fulfill this objectives. Another major event SSTH which is an annual gathering that provides a platform, where eminent National and International Scientists interact with young students and teachers to showcase their excitement of scientific works and investigations.

### CHALLENGERS DAY

An annual day celebrated in accordance to when our team was found, on 4th Sunday of July, where in all the present team members and the alumni are invited. A formal addressing from our alumni to the team and a small briefing about the endeavours, projects and achievements till date by the team.

**ಮಂಗಳೂರು:** ಅಮೆರಿಕದ ಟೆಕ್ಸಾಸ್‌ನಲ್ಲಿ ಮಾರ್ಚ್‌ನಲ್ಲಿ ನಡೆಯಲಿರುವ ಎಸ್‌ಎಫ್ ಅಂತಾರಾಷ್ಟ್ರೀಯ ಏರೋಡಿಸೈನ್ ಫೈನ್ (ವಿಮಾನ ವಿನ್ಯಾಸ) ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಭಾಗವಹಿಸಲು ಆಯ್ಕೆಯಾಗಿರುವ, ಮಂಗಳೂರಿನ ಸಹ್ಯಾದ್ರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳು ರೂಪಿಸಿರುವ ಏರೋಡಿಸೈನ್ ಫೈನ್‌ನ ಸಂಸದ ನಳೀಶ್ ಕುಮಾರ್ ಕಟೀಲು ಅನಾವರಣ ಮಾಡಿದರು. ಫೈಟಿಂಗ್ ಸಿಎಂ. ಆರ್.ಎಸ್. ಹಿರೇಮಠ, ಭಂಡಾರಿ ಫಂಡೇಶನ್ ಅಧ್ಯಕ್ಷ ಮಂಜುನಾಥ ಭಂಡಾರಿ, ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಹಾ. ಯು.ಸಿ. ಭೂತಿ, ಉಪಮೇಯರ್ ಪುರುಷೋತ್ತಮ ಚತುಪ್ರಭ, ರಾಜೇಶ್ ನ್ಯಾಕ್ ಉಳವಡಿ, ಪ್ರೊ. ಎಂ.ಬಿ. ಪುರಾಣಿಕ ಉಪಸ್ಥಿತರಿದ್ದರು. ಮೊಹಮ್ಮದ್ ಅನಸ್, ತಾರಾನಾಥ್, ಗೌಸ್ ಖಾನ್ ಎಂ.ಎಸ್., ಮಿದನ್ ಜ್ಯೋತಿಷ್, ಜೆ.ಎಲ್.ಆರ್. ಆರ್.ಎಂ. ರಾಜ್ ಗೋಕುಲ್ ಗಾರ್ಗಿ.ಎಸ್., ನಿಜೀಶ್ ಎಸ್. ಪ್ರಕಾಶ್, ಪ್ರೊ.ಬಿ.ಜಿ. ಹಾಗೂ ಅಮೃತಾ ಖಂಡ್ರೆ ಒಳಗೊಂಡ ವಿದ್ಯಾರ್ಥಿಗಳ ತಂಡ ಈ ವಿನ್ಯಾಸವನ್ನು ರೂಪಿಸಿದ



**SAHYADRI**  
UNIVERSITY OF ENGINEERING AND MANAGEMENT  
MANGALURU

## RC aircraft set the sky abuzz in city

**TIMES NEWS NETWORK**

**Mangaluru:** The sultry weather in the city notwithstanding, students and aviation enthusiasts turned up in hundreds at the Sahyadri College of Engineering and Management, which is hosting the two-day national-level aeromodelling competition Aerophilia 2017, the curtains on which rose on Friday.

The sky buzzed with the humming of the radio-controlled (RC) aircraft and helicopters, and the crowd was treated to a host of manoeuvres that left them breathless. Planes that ran on fuel brought by two flyers from Dubai - Abhulhas Jaseem, Mangalore for health and environment in port and customs, and Essa, a cop-worked attractions at what was an aviation fete, with the atmosphere resembling that of an airshow. Their planes were INX7 (Gan).

Members of the Mangalore Flyers were among the showstoppers at the event, with their RC aeroplanes flying the crowd with spectacular feats. Many of the teams from across the country, including teams from NITs, IITs, have descended on Mangaluru to participate in the event. The competition will entail the participants to design the aircraft, which will be judged on the quality of their design and working capacity.

One of the models that were on display at the inauguration day of Aerophilia included Tigris, Adarsh-Helicopters and other jet aircraft. Among



**HIGH FLYING:** Flyers from Dubai Abhulhas Jaseem and Essa Saeed Essa Binayouh with one of their planes that runs on fuel. The two-day national level aeromodelling competition began in Mangaluru on Friday.



## Sahyadri team placed 2nd in intl aerodesigning contest

MANGALURU: Team Challengers from Sahyadri College of Engineering and Management (SCM), Mangaluru, Florida, USA, has secured 2nd position in the international aerodesigning contest. The team, comprising of students and faculty members, participated in the contest held at Lakeland, Florida, USA. The team's design was highly appreciated by the judges and they were awarded 2nd position in the contest.

## ‘ವಿದ್ಯಾರ್ಥಿಗಳು ಏರೋನಾಟಿಕ್ಸ್ ಕ್ಷೇತ್ರದಲ್ಲಿ ತೊಡಗಿಸಿ’

**ಮಂಗಳೂರು:** ಪ್ರಗತಿಪೂರ್ಣ ಅಭಿವೃದ್ಧಿಯನ್ನು ಒದಗಿಸಲು, ಉನ್ನತ ಶಿಕ್ಷಣದ ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ. ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ. ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.



The prize-winning students of Sahyadri College of Engineering and Management.



**Sahyadrians excel at SAE International Aerodesign event**

Mangaluru: Team Challengers of Sahyadri College of Engineering and Management, Mangaluru, participated in SAE International Aerodesign Event (IAE) held at Lakeland, Florida, USA. In inter-class and regular class categories, they secured 2nd and 3rd positions respectively in the contest.



**ಸಹ್ಯಾದ್ರಿ ಚಾಲರ್ಸ್‌ಗೆ ಒತ್ತುಮಾಡನ**

ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ. ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.



**Sahyadri College wins 2nd place in intl competition**

TEAM Challengers from Sahyadri College of Engineering and Management (SCM), Mangaluru, has participated in the SAE International Aerodesign Event (IAE) held at Lakeland, Florida, USA. In inter-class and regular class categories, they secured 2nd and 3rd positions respectively in the contest.



**ಸಂಯುಕ್ತ ಕರ್ನಾಟಕ**

ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ. ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.

## ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಬಿಜ್ಜಿ ಹಾರಾಡಿದ ಮಾದರಿ ವಿಮಾನ

**ಮಂಗಳೂರು:** ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಬಿಜ್ಜಿ ಹಾರಾಡಿದ ಮಾದರಿ ವಿಮಾನ. ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.

## ಅಡ್ಡಾರ್ ಸಹ್ಯಾದ್ರಿ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆ ರಾಷ್ಟ್ರಮಟ್ಟದ ಏರೋ ಮಾದರಿ ಸ್ಪರ್ಧೆಗೆ ಚಾಲನೆ

**ಅಡ್ಡಾರ್,** ಏ. 27: ಏರೋನಾಟಿಕ್ಸ್ ಕ್ಷೇತ್ರದಲ್ಲಿ ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ. ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.

## ಮಂಗಳೂರು ಸಂಯುಕ್ತ ಕರ್ನಾಟಕ ಏರೋಫಿಲಿಯಾ-2017 ಸ್ಪರ್ಧೆಗೆ ಚಾಲನೆ

**ಮಂಗಳೂರು:** ಏರೋಫಿಲಿಯಾ-2017 ಸ್ಪರ್ಧೆಗೆ ಚಾಲನೆ. ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.

**ಸಹ್ಯಾದ್ರಿ ಕಾಲೇಜಿನ ಟೀಮ್ ಏರೋಫಿಲಿಯಾ-2017 ಸ್ಪರ್ಧೆಗೆ ಚಾಲನೆ**

ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.

**ವಿಮಾನ ವಿನ್ಯಾಸ ಸ್ಪರ್ಧೆಗೆ ಚಾಲನೆ**

ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸುವುದು ಅಗತ್ಯವಿದೆ.

**ವಿಮಾನ ವಿನ್ಯಾಸ ಸ್ಪರ್ಧೆಗೆ ಚಾಲನೆ**

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**"WE HAVE DREAMED BIG,  
VENTURED ON WILD SEAS, LOST SIGHT OF THE LAND A FEW TIMES  
AND FOUND STARS TO GUIDE US ON OUR JOURNEY.  
WE EXPANDED OUR HORIZONS  
AND LEARNED LESSONS "**

**- TOM MILNER**  
Space Shuttle Engineer



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