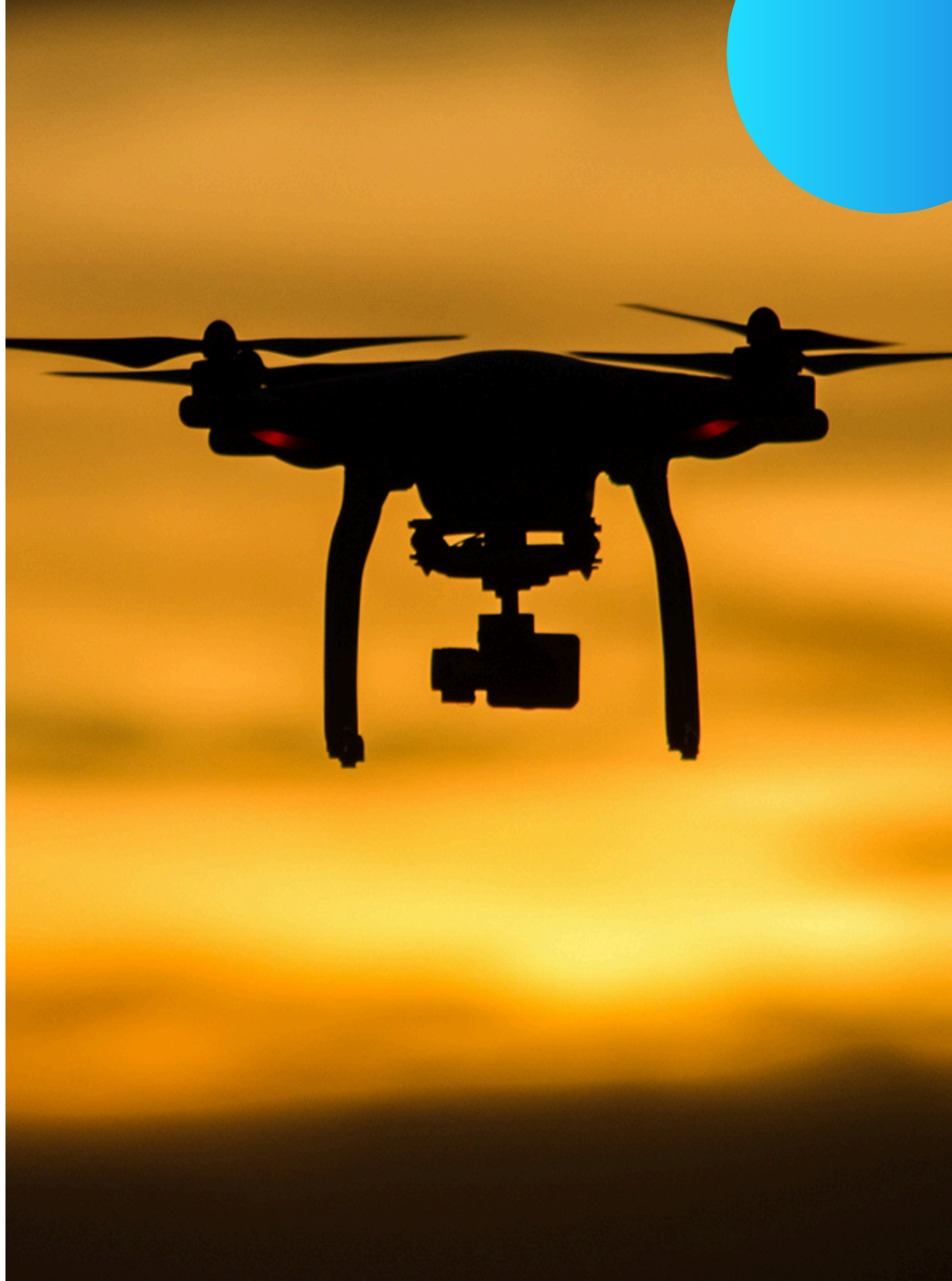
SINGULARIT

MARUTHY

COCHIN UNIVERSITY OF SCIENCE
AND TECHNOLOGY

ABOUT US

Team Singularit is a visionary collective of young engineers dedicated to pushing the frontiers of unmanned aerial technology. As passionate innovators, we are developing cutting-edge autonomous drones for global impact, with a strong focus on precision, efficiency, and mission reliability. Our participation in the prestigious SUAS (Student Unmanned Aerial Systems) competition represents our commitment to excellence in aerospace innovation. The name Singularit reflects our aspiration to reach a singularity of perfection—where engineering, intelligence, and purpose converge. We strive to shape the future of aerial systems while representing India on an international stage, driven by bold ideas and an unyielding passion for flight.



Our Core Purpose

Mission

To be a sustainability-focused, economically viable, and technically advanced multi-disciplinary team, empowered by a forward-thinking technical mindset that simplifies complexity and delivers real-world impact.

Vision

To lead the next generation of autonomous aerial systems by combining innovation, sustainability, and cross-disciplinary collaboration—elevating India's presence in global drone technology.

ORGANISERS

SUAS – Student Unmanned Aerial Systems Competition

The Student Unmanned Aerial Systems (SUAS) competition is an international challenge hosted by the Association for Unmanned Vehicle Systems International (AUVSI). Designed for collegiate teams, SUAS pushes the boundaries of innovation by requiring participants to design, develop, and demonstrate autonomous aerial systems capable of completing complex real-world missions.

With a focus on flight autonomy, object detection, precision navigation, and system integration, SUAS fosters practical engineering experience, multidisciplinary collaboration, and technological excellence. The competition cultivates the next generation of aerospace pioneers, preparing students to lead in the evolving field of unmanned aviation.

SUAS Mission

The SUAS competition is designed to foster interest in Unmanned Aerial Systems (UAS), stimulate interest in UAS technologies and careers, and to engage students in a challenging mission.

Hosted by RoboNation

At the 2023 SUAS Competition, RoboNation proudly announced its new role in managing the internationally renowned SUAS Competition. Under the RoboNation banner, SUAS will continue to provide a platform for students from around the world to showcase their ingenuity, technical prowess, and teamwork.

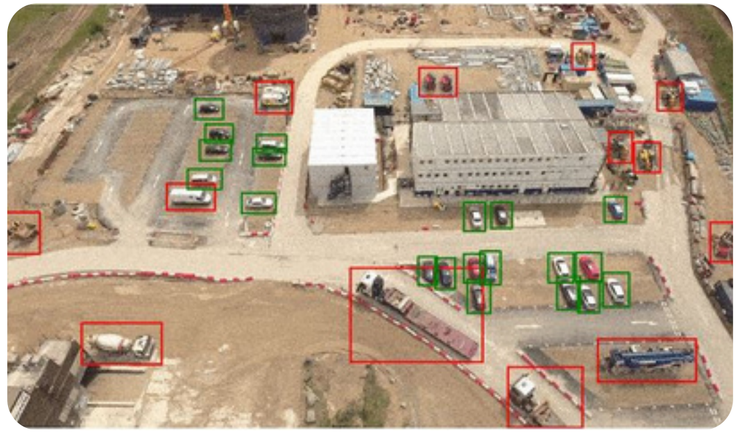
OUR TARGETS

AUVSI SUAS 2025

Student Unmanned Aerial Systems Competition Patuxent River Naval Air Station, Maryland, USA
June 2025

From SingularIT to infinity—shaping the future, one step at a time

Our Strategic Focus



The drone utilizes advanced computer vision algorithms to detect and identify objects in its flight path, ensuring obstacle awareness and enhanced navigation

Drone dynamically recalculates its flight path, implementing an optimized rerouting strategy to ensure safe and efficient navigation

The drone is equipped with a precise payload deployment mechanism, allowing it to release cargo accurately at designated locations based on pre-programmed commands or real-time control.

"From SingularIT to Infinity—shaping the future, one step at a time.."

— Team Singularit

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Thank you for your time and commitment to our shared vision.

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