

EXPERIENCE A PANORAMIC VIEW OF THE ENTIRE YEAR AT A GLANCE.



# YEAR IN REVIEW 2025

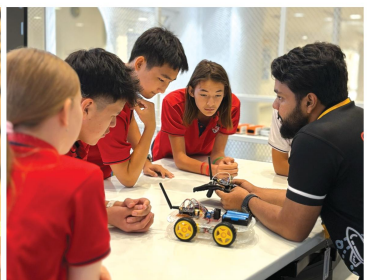
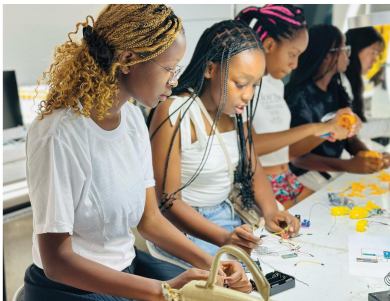
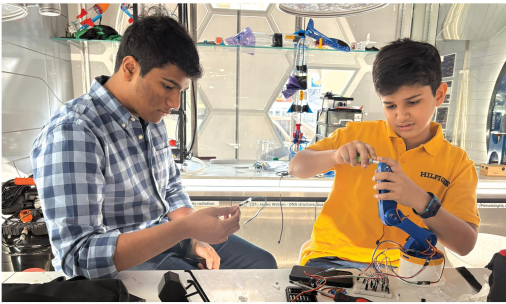
# A YEAR OF INNOVATION

COLLABORATIONS, AND GLOBAL IMPACT

**2025** was a defining year for Lab of Future.

A year where students built rovers, satellites, AI systems, drones and full-scale engineering prototypes.

A year where global partners **ISRO, MBRSC, ESA, Google, Britannica, China's robotics leaders, and universities across the region collaborated with us** to redefine space-tech and future-skills education. A year where our STREAMER ecosystem expanded across schools, countries, and disciplines, transforming learning into real-world innovation. This is how Lab of Future became one of the fastest-growing innovation ecosystems across the UAE, India, and the world.





# TRANSFORMING SCHOOLS INTO INNOVATION HUBS

LABS, CLUBS, TOURS AND HANDS-ON STREAMER EXPERIENCES ACROSS UAE & INDIA



## STEMonstrations & 90-Minute Lab Tours

Thousands of students experienced applied learning in Space Science, AI, Robotics, Drones, 3D Printing, Astronomy, and Aeromodelling. Each session connected textbook concepts to real systems through building, testing, and iteration.



## Partner Schools (Highlights)

From leading GEMS schools to international and Indian curriculum schools, LOF ran engagements across a growing network of partner institutions. The result: stronger STEM culture, sharper curiosity, and clear pathways to future skills.



## Blue Umbrella – Inclusive STEM Education

Weekly workshops empowered special students through hydro-rocket science, block-based coding, sensor-based builds, and creative STEM projects. Inclusion remained a core LOF promise: access to high-quality, hands-on learning for every learner.



## Week Without Walls (WWW) – India

Schools transformed into innovation hubs as students engineered solid fuel rockets, multi-stage hydro rockets, drones, telescopes, and RC planes. The program brought hands-on engineering to campus making “learning by doing” the default.



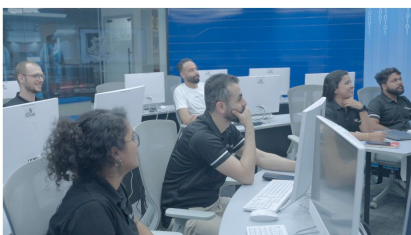
## After-School Clubs (ECA Programs)

LOF launched structured clubs across UAE in aeromodelling, space & astronomy, space robotics, robotics/coding/AI, and STREAMER multidisciplinary tracks (12–16 sessions). Students progressed from curiosity to capability through consistent lab-based learning.



## Expansion to Abu Dhabi

Programs rolled out at Al Ittihad National School, strengthening LOF’s footprint in the capital. This marked an important step in scaling structured future-skills programs across the UAE.



## Teacher Empowerment & School Engagements

LOF conducted teacher workshops on Future Skills for 2040, AI in Education, and emerging tech careers—helping schools build stronger internal capacity. These sessions supported educators in translating future-tech into classroom-ready learning journeys.





# GLOBAL FOOTPRINT

## INTERNATIONAL PROGRAMS & COLLABORATIONS



### Zimbabwe International Tours

Students from Hellenic Academy and Arundel School completed a 6-day engineering expedition, building functional rovers and running satellite ground-control simulations. The tour combined rigorous engineering with global exposure and cultural immersion.



### Azerbaijan Zero-Gravity Program (with Azercosmos Space Academy)

This 6-day immersive program combined hands-on space-technology learning with cultural experiences, allowing students to progress through model rocketry, wind-tunnel wing dynamics, satellite-docking robotics, AI game development, drone soft-landing engineering, and telescope construction. Alongside technical labs, students engaged in cultural exchanges and explored Dubai's innovation ecosystem, creating a holistic learning experience that built practical skills, global perspective, and future-ready mindsets.



### India Engagements & Summer Camps

LOF visited key institutions in Chennai and Delhi for orientations, lab pitches, research internship introductions, and program planning. India-wide camps engaged hundreds of learners in AI & Robotics, Space-Tech, Drones, IoT, and critical thinking building momentum for deeper scale.

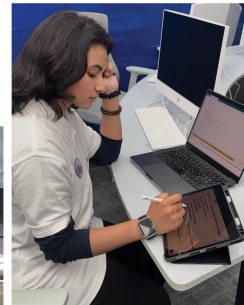




# MISSIONS, CAMPS & INTERNSHIPS ENGINEERING MADE REAL

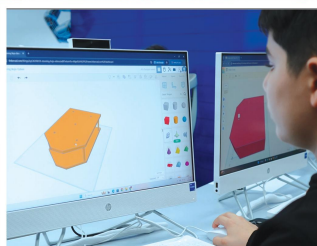
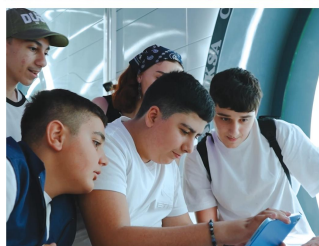
## Orbita Mission 25 UAE's Student CubeSat Launch (Historic)

UAE students built and launched a CubeSat in Moscow, participated in the International Space Science Tournament, and secured global recognition—including a second-place finish. Orbita became a landmark student-led space mission and a symbol of LOF's "build-to-believe" approach. The mission demonstrated how real-world engineering, international collaboration, and student-led problem solving can turn ambition into achievement, redefining what school students are capable of on a global stage.



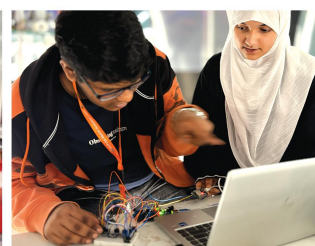
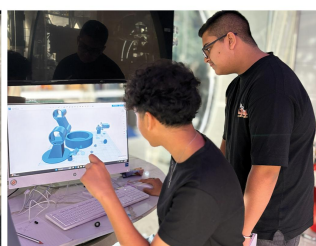
## Inflight Anti-Gravity Simulation Experience:

Students experienced anti-gravity simulation through professional vertical wind-tunnel flights at Inflight, alongside hands-on exposure to drone programming, AI experiments, model rocketry, rover challenges, 3D design, and Mars mission navigation. The experience allowed students to safely understand flight dynamics, body control, and aerospace concepts through real-world simulation rather than theory.



## Space Tech Camps 2025 — Lab of Future

Held across four locations in Dubai, the Space Tech Camps (Summer and Winter) engaged students in hands-on learning across space science, robotics, AI, drones, and engineering challenges. With live interactions with ex-NASA, ESA, and UAE Space Agency experts, students built, coded, designed, and solved real tech problems through immersive, project-based experiences.





## Research Internships (KHDA-Certified)

High school and undergraduate interns developed lunar robotic arms, CubeSat prototypes, planetary rovers, space debris mitigation systems, AI healthcare models, IoT habitats, and deep-space communication concepts. Over 30 research-backed prototypes were produced in 2025.



## Google Partnership

LOF community gained access to Google Career Certificates, workshops, and learning alignment with global digital skills standards. The partnership strengthened LOF's applied-tech and future-readiness ecosystem.



## Britannica × LOF

Britannica content was integrated into the LOF App to support STREAMER-aligned learning concepts blending trusted academic depth with hands-on learning journeys.



## Projection House Partnership

LOF's official AV and tech partner supported lab setups, interactive panels, and spatial learning environments elevating the learning experience through high-quality infrastructure.



## China Tech Collaborations

LOF expanded its ecosystem through collaborations with robotics and deep-tech leaders, including Unitree, ICreate, Deep Robotics, BrainCo, Yehang PCB, and Jer Educational Services strengthening global access to next-gen technologies.



# PARTNERSHIPS & ALLIANCES — BUILDING A GLOBAL ECOSYSTEM



## ISRO Collaboration

LOF hosted senior ISRO pioneers, including Dr. T. P. Sasikumar and Dr. P. V. Radhadevi (ADRIN DG, Chandrayaan contributor). Their sessions inspired learners on orbital mechanics, satellite design, and India's lunar mission journey.



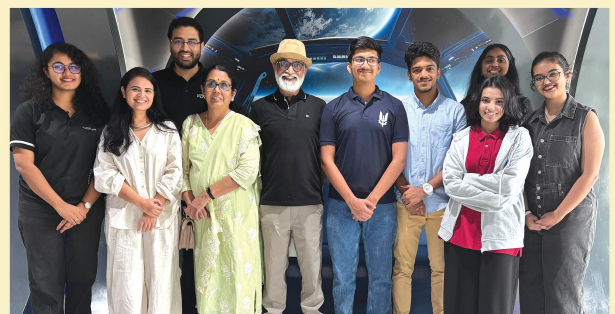
## MBRSC Collaboration

H.E. Salem AlMarri visited the LOF Lab as students showcased projects to UAE's space leadership. LOF teams also visited MBRSC HQ for joint discussions on research pathways and future program collaborations.



## ESA Collaboration

Students collaborated with ESA space debris engineer Vitali Braun on a live research project bringing real-world space challenges into a student learning journey.





# EVENTS, EXHIBITIONS & NATIONAL ENGAGEMENT



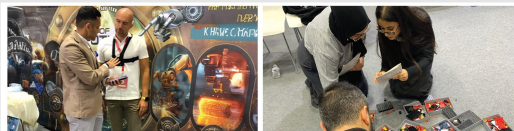
## Dubai AI Festival

LOF Trainer Hazem Abdullah represented LOF, speaking on AI's role in transforming modern education positioning LOF as an active contributor to the region's AI learning discourse.



## GETEX Education Fair

LOF ran high-engagement workshops spanning Galactic Mechanics, Aeromodeling, AI Biomechanics, School-in-Space Engineering, and parachute/glider systems bringing LOF's hands-on pedagogy to a national education audience.



## CESS Dubai 2025

LOF showcased STREAMER learning models, research pathways, innovation labs, and high-school research pipelines strengthening institutional partnerships and future program demand.





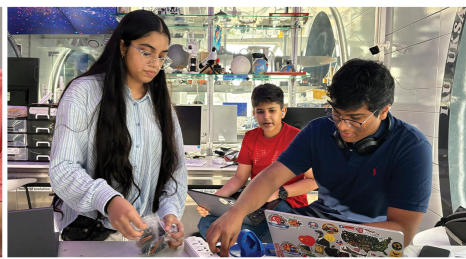
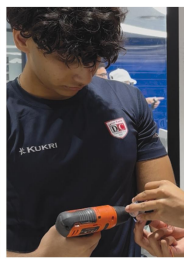
## STEM MENA Conference

LOF expanded pathways and relationships across Oman, Qatar, Uganda, and the UAE deepening regional visibility and collaboration opportunities.



## NASA Space Apps Judging

LOF served as jury for Hyderabad's chapter of NASA's global innovation challenge supporting student innovation on an international stage.



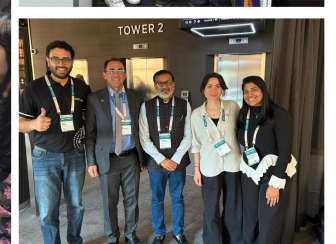
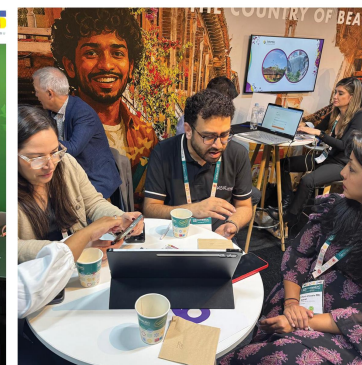
## Gulf News Edufair

Founder Arpit Dugar spoke on "New Age Skills – Preparing for 2040," reinforcing LOF's leadership in future-skills education. The session highlighted the importance of experiential, hands-on learning in preparing students for rapidly evolving industries and inspired meaningful conversations with students, parents, and educators on reimagining education for the future.



## EAIE Conference 2025 | Sweden

LOF represented UAE at Europe's largest education conference, building new global partnerships and pathways for international collaboration.





# **CURRICULUM, R&D & PROTOTYPING THE ENGINE BEHIND LOF**



## **CHENNAI R&D LAB 80+ ENGINEERS**

LOF built STREAMER-aligned content across Robotics, Aerospace, Space Science, AI, IoT, and Aerodynamics powering both school programs and advanced learning tracks.

## **60+ PROTOTYPES DELIVERED IN 2025**

From airfoil design and RC aircraft to quadrupeds, robotic arms, compiler tools, and astronomy modules LOF's R&D translated curriculum into tangible engineering systems.

## **LABATHON 2025 (48-HOUR SPRINT)**

Curriculum and creative teams rapidly delivered new modules, visual assets, documentation, and innovation campaigns accelerating LOF's product and learning engine.

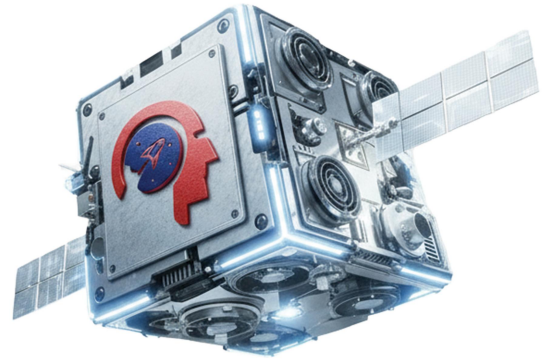




# STUDENT BREAKTHROUGHS – THE HEART OF LOF



Across 2025, LOF students built work that reflects real scientific thinking and engineering maturity. These breakthroughs show learners are not just “future-ready” - they are future-leading.



**Akanksha (16)**  
AI-powered Space  
Debris Removal  
System



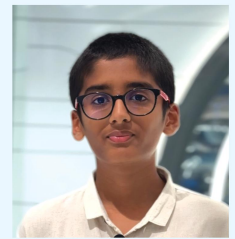
**Yatika (12)**  
ESA Exoplanet Data  
Analysis (CHEOPS  
mission)



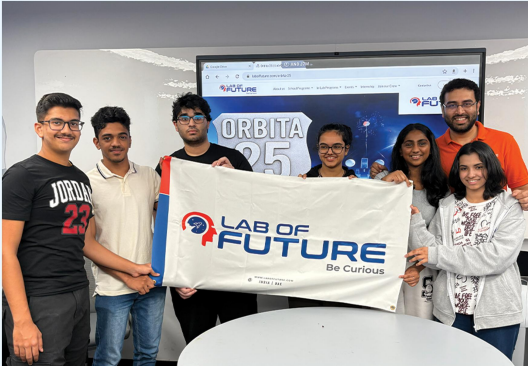
**Arsh**  
Insurance Claim  
Prediction AI Model



**Ismail**  
6-DOF  
Robotic Arm



**Ahan**  
IoT  
Mars Habitat



## Meet: 4×4×4 LED Cube Engineering



## THE ROAD AHEAD 2026

LOF is scaling STREAMER Labs across UAE and India, launching expanded Zero Gravity cohorts, Week Without Walls 2.0, global school exchanges, advanced research internships, and competitions on global stages. With 100+ new prototypes and deeper international partnerships, LOF is building the next era of future-ready learning ecosystems.







**2025 WAS EXTRAORDINARY**  
**2026 WILL BE**  
**TRANSFORMATIONAL**

