LAB OF FUTURE
Be Curious

OCTOBER HIGHLIGHTS 2025

LAB OF FUTURE–ENGINEERING BREAKTHROUGHS, GLOBAL SHOWCASES & STREAMER IMPACT

October was a month of momentum from completing major prototypes across Aerospace, Robotics, and Computer Science, to engaging 2,000+ learners during World Space Week at Expo City Dubai. Our teams built, tested, documented, and delivered — while students across schools turned their curiosity into innovation.

AEROSPACE

PROTOTYPES THAT TOOK FLIGHT

From ion thrusters to environmental monitoring systems, our young aerospace engineers (ages 8–14) reached new milestones this month.

AGE GROUP 11–14:

- Anemometer prototype completed
- Ion Thruster prototype completed
- RC Plane build completed
- Rocket redesign in progress
- Water Rocket & Launcher upgrade in progress
- Environmental Monitoring System completed

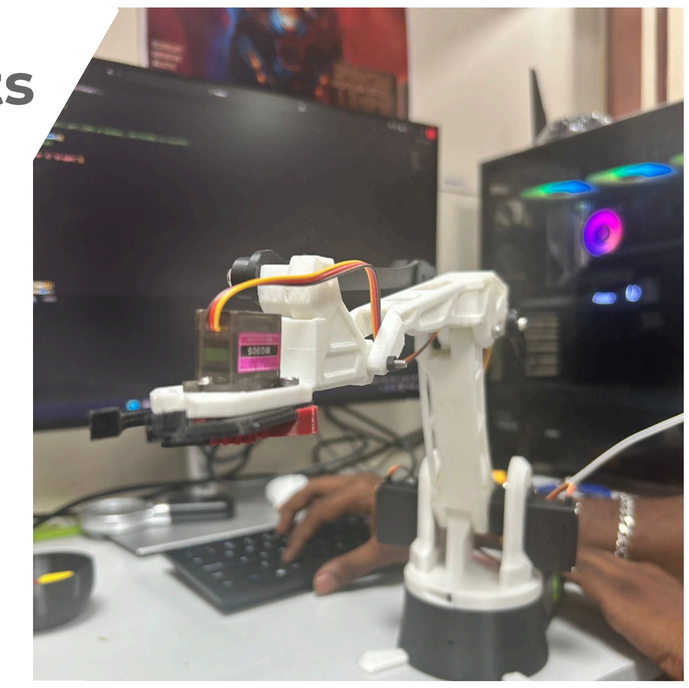
AGE GROUP 8–10:

- Anti-icing & De-icing prototype completed
- Catapult Glider completed
- Sea Plane completed
- Hydraulic Landing Gear completed
- Radar System completed

The team is fine-tuning launcher mechanisms, finalizing rocket redesigns, and refining assembly documentation to make the modules trainer-ready for upcoming STREAMER Labs.

ROBOTICS

Two flagship robotics products reached their final stage of completion. Mechanical and electronic systems have been successfully tested



SPACE & ASTRONOMY

LEARNING BEYOND THE SKY

Our Space & Astronomy division finalized one complete product with detailed documents and explainer videos. Three to four new 11–14 projects are in active development, while the 8–10 age group story-based video has been successfully completed.

COMPUTER SCIENCE

BUILDING TOOLS THAT POWER INNOVATION

OCTOBER MARKED A PRODUCTIVE MONTH FOR OUR COMPUTER SCIENCE TEAM.

- Completed Teacher & Student Manuals for the 15–18 age group
- Launched “Timewise”, a new timesheet tracking system for internal use
- Developing Code Runner – a Python compiler for ages 8–14
- Building Sync Flow – a ticketing & workflow management system
- Finalizing curriculum documentation for the 8–14 age groups

IN-SCHOOL WORKSHOPS & LAB TOURS

OCTOBER WAS PACKED WITH CLASSROOM ENERGY AS LAB OF FUTURE BROUGHT HANDS-ON STREAMER LEARNING DIRECTLY TO SCHOOLS.

BC ACADEMY

Students programmed Moon Rovers, explored nebulas, and built hand-gesture cars for Mars Missions.

ROYAL GRAMMAR SCHOOL GUILDFORD

Hands-on robotics with our signature Robodogs.

DWIGHT SCHOOL

Spark Lab sessions launched with Drone Workshops, Lunar Navigation Challenges, and Sensor Assemblies through Vincibots.

LAB TOURS

Al Diyafah School and Royal Academy Private School joined immersive lab visits.

WORLD SPACE WEEK CELEBRATION

EXPO CITY DUBAI

In collaboration with *Alif* and *Expo City*, Lab of Future celebrated *World Space Week* with over *2,000 participants*, hands-on workshops, and astronaut-led sessions.

ONLINE ENGAGEMENT

Virtual challenges concluded with global winner announcements, continuing the excitement beyond the event.

FLL PREP & STREAMER LABS IN ACTION

GEMS SRI DISRUPTION LAB

STREAMER sessions commenced — students explored coding and communication systems in real-world applications.

FIRST LEGO LEAGUE (FLL)

Training and practice rounds continue under mentor Hazem, preparing teams for global competition.

LABATHON 2025: THE 48-HOUR CREATIVE SPRINT

INNOVATION DOESN'T SLEEP AT THE LAB OF FUTURE.

Our Creative, and Curriculum teams collaborated for a 48-hour Labathon sprint, delivering visuals, layouts, and campaign assets under tight timelines. The marathon-style session showcased true STREAMER spirit — creativity, resilience, and teamwork in action.

PARTNERSHIPS IN PROGRESS

BRITANNICA COLLABORATION

A new academic tie-up is underway — details to be shared in next month's edition.

CURTIN UNIVERSITY BUSINESS CUP CHALLENGE 2025

Participants received up to 50% scholarships for the Advanced Scientific Inquiry Internship.

GLOBAL INDIAN SCHOOL TECHNOVA

Lab of Future joined as part of the jury, evaluating over 40+ innovative projects from schools across India.

IN THE MEDIA

GULF NEWS EDUFAIR

Fireside Chat with Arpit Dugar on "New Age Skills – Preparing for 2040."

GULF NEWS FEATURE

Official announcement of Project ORBITA, inspiring the next generation of space innovators.

The young pioneers — Avani Gupta (The Indian High School, Dubai), Aditya Kashyap (GEMS Modern Academy), Mohamed Jefran (Pristine Private School), Shreya Muzumdar (Cambridge International School, Dubai), Ishitha Justina Riyad (GEMS Winchester School, Dubai), and Madhav Soni (The English College, Dubai) — have not only put Lab of Future on the global map but also given the UAE a proud moment in its journey to become a space innovation hub.


Lab of Future students launch stratospheric CubeSat in Russia

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Dubai)

When the data returned to Earth, it delivered research-grade insights: confirmation of microplastics in the upper atmosphere, mapping of harmful gases linked to climate change, and evidence of Kapton's superior resilience under UV exposure.

For the students, Orbita was more than an experiment; it was a transformative journey. They learned to engineer, debug and collaborate under real pressure. They presented findings at an

LOOKING AHEAD — NOVEMBER 2025

CURTIN UNIVERSITY (NOV 5)

2-hour Advanced Robotics Workshop with our Mechatronics Engineer.

STEM MENA CONFERENCE (NOV 8)

Join us at Millennium Lakeview Hotel, DIP 1, for our panel "New Age Skills – Preparing for 2040."

AZERCOSMOS SPACE ACADEMY (NOV 8–13)

Zero Gravity Workshop welcoming students from Baku, Azerbaijan.

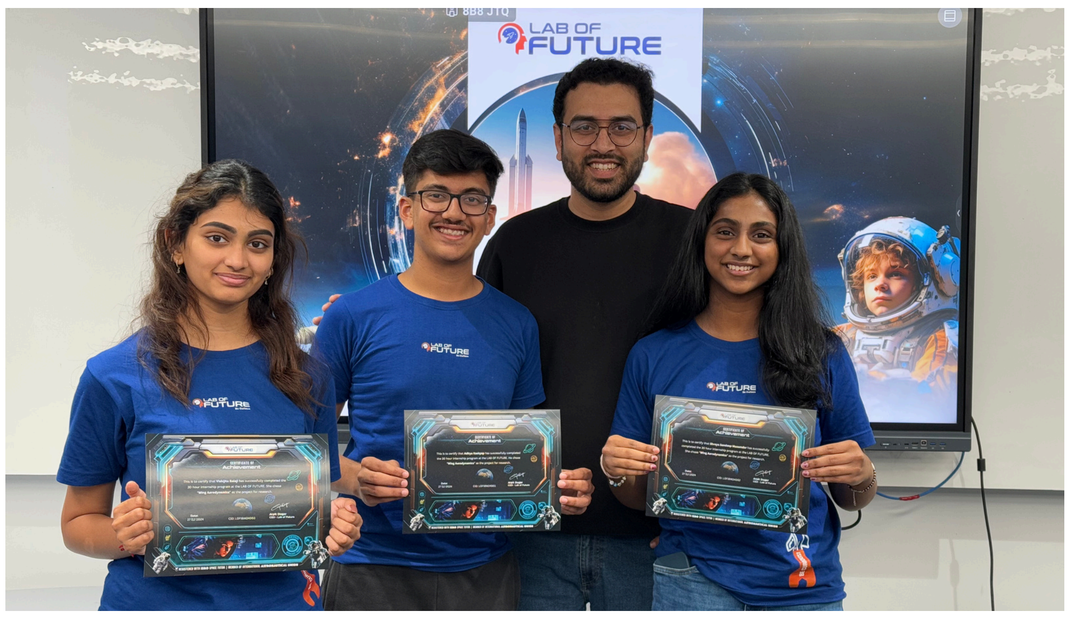
LAB TOURS CONFIRMED

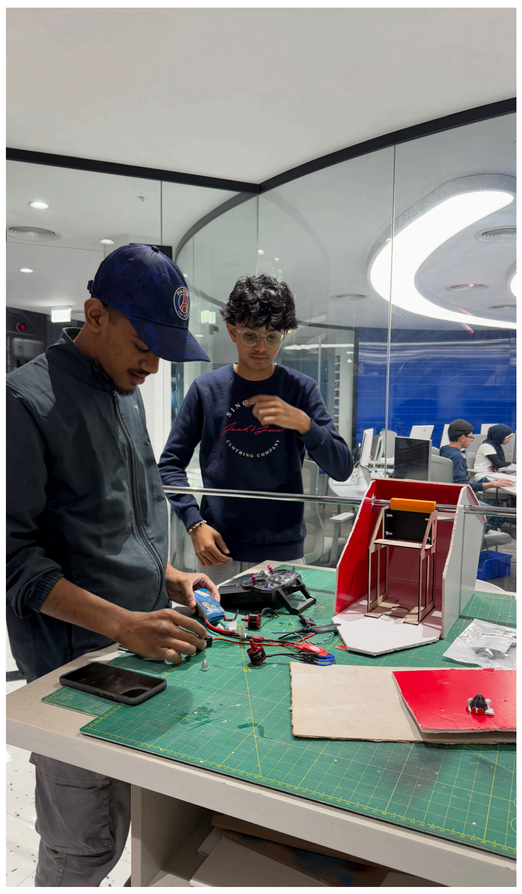
The Aquila School, Cedar School, GEMS Winchester, GEMS Wellington students will come for the 90-minute lab tour.

WINTER INTERNSHIPS & CAMPS

WINTER INTERNSHIPS

- Scientific Inquiry (Ages 15–18)
- Advanced Scientific Inquiry (Ages 19–24)





These internship programs open the door for young researchers to explore real-world challenges in Space Science, Robotics, and AI under expert mentorship. Participants gain certification, portfolio-worthy projects, and an edge for university applications.

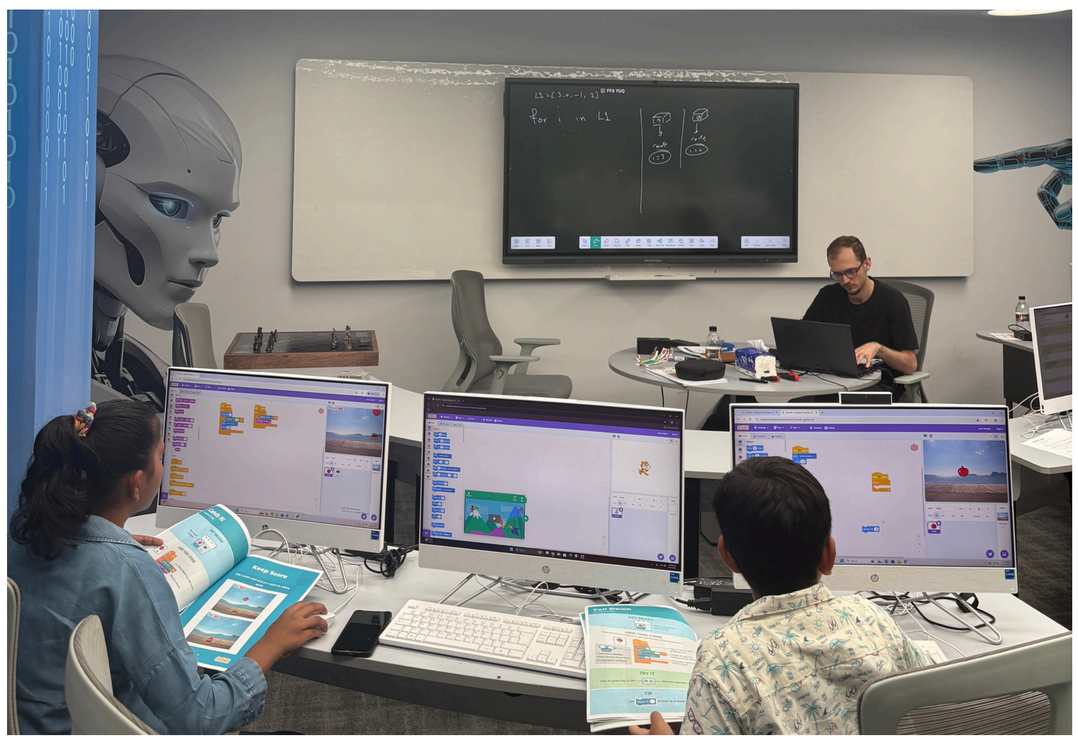
WINTER CAMPS

Confirmed at Karama and Expo City Dubai

From drones and robotics to model rockets and AI experiments — students will spend their winter break building, experimenting, and creating their own innovations through hands-on STREAMER learning.

AI DIVISION SPOTLIGHT

Our interns have initiated a Brain Cancer Detection Research Project, integrating AI for early diagnostics results to be revealed next month.



Lab of Future continues to push boundaries from school labs to global collaborations inspiring students to imagine, design, and lead the innovations of tomorrow.

Follow the Journey

Stay connected with Lab of Future across platforms and be part of the innovation movement.

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