



A.T.O.M Robotics

Maharaja Agrasen Institute of technology

ECE Department

EVENT REPORT

Event: A.T.O.M Showcase

Date and Venue: 28th September
2025, between 2nd and 4th Block.

Organised By: A.T.O.M Robotics Lab

Objective of the Event: The purpose of the Project Showcase was to present innovative student-led projects to the new batch of students and build excitement for the upcoming Orientation Day. The session aimed to highlight the technical capabilities of the society, inspire newcomers to join, and demonstrate real-world applications of robotics, electronics, and automation.



Description of the Event:

The event features a display of various projects developed by members of the A.T.O.M Robotics Society. Students interacted with working prototypes, gaining a firsthand understanding of robotics and embedded systems.

Key highlights of the showcase included:

- **Robotic Arm:** a precise, multi-jointed arm for automation tasks.
- **MR. ROBOT 2.0:** an autonomous differential robot capable of smooth manoeuvring in all directions.
- **Atomtendo:** an ESP32-based custom gaming console with LED display and buzzer sound system.
- **Autonomous Quadcopter Drone:** designed for package delivery, developed for the NIDAR competition.
- **Tri Bot:** a stair-climbing robot capable of navigating uneven terrain.
- **Hexabot :** a six-legged walking robot demonstrating advanced locomotion.
- **IRIS for the Blind:** a vision-assist system with a camera and image to speech model that guides visually impaired users through vibration feedback.
- **CNC Machine:** a computer-controlled machine capable of precision cutting and engraving.

Conclusion:

The Project Showcase successfully introduced newcomers to the culture of innovation at MAIT and demonstrated the technical expertise of A.T.O.M Robotics Society.



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