

ROBOSTREAKS CLUB ANNUAL REPORT

Parala Maharaja Engineering College (PMEC)

Academic Year 2025–26

1. INTRODUCTION

Robostreaks is the official robotics society of Parala Maharaja Engineering College (PMEC), Berhampur. The club is a student-driven platform dedicated to promoting robotics, automation, embedded systems, innovation and hands-on technical learning among students.

During the academic year 2025–26, the club organised its robotics exhibition Robo Expo, the club orientation Roborise 2K25, a year-long series of training sessions and workshops, and its annual tech fest Robomania 2K26. Its members also represented PMEC at national-level hackathons, robotics competitions, and technical fests, bringing glory to the club. These activities gave students opportunities to apply classroom knowledge to real-world problems, build working prototypes, compete with teams from leading institutions, and develop skills in teamwork, leadership and event management.

This report presents the activities and achievements of the club for the academic year 2025–26.

2. OBJECTIVES

- To promote robotics, automation and innovation among college students.
- To provide a platform for hands-on learning through projects, workshops and competitions.
- To showcase student-built robots and technical projects to the college community.
- To encourage participation in hackathons, robotics competitions and technical fests at the state and national levels.
- To develop problem-solving, design thinking and practical engineering skills.
- To foster teamwork, leadership, coordination and event-management skills.
- To create a vibrant and collaborative technical culture within the college.

3. ACTIVITY CALENDAR AT A GLANCE

The table below lists the club's activities.

SL. NO.	DATE & TIME	ACTIVITY	VENUE / MODE
0	25 August 2025	Exordium 2K25	PMEC Campus
1	13 Sep 2025	Robo Expo – Robostreaks Exhibition	PMEC campus
2	1 Nov 2025 10:30 AM	Roborise 2K25 – Club Orientation	Robostreaks Club, Utility Block
3	Early Nov 2025	Start of Robotics Club sessions – fundamentals of robotics	Robostreaks Club
4	6 Nov 2025 5:00–5:40 PM	Session: Hardware & Control Systems; ID card distribution	Robostreaks Club
5	10 Nov 2025 5:00 PM	Session: Basics of Robotics	Robostreaks Club
6	Mid Nov 2025	Session 4: Basics of Robotics	Robostreaks Club
7	19 Nov 2025 7:30 PM	Interactive online class: Arduino Uno programming & Tinkercad	Online
8	21 Nov 2025 5:00 PM	Session: Soldering, DC motor basics, chassis design	Robostreaks Club
9	22 Nov 2025 11:15 AM–12:30 PM	Session: 3D modelling, CAD & SolidWorks	Robostreaks Club
10	8 Feb 2026 4:00 PM	Drone Building Workshop	Robostreaks Club
11	25–27 Feb 2026	Robomania 2K26 Awareness Meetings (Line Follower, TIC, Robo Race & Sumo)	PMEC campus
12	6–7 Mar 2026	Robomania 2K26 – Annual Tech Fest	PMEC campus
13	11 Apr 2026 11:00 AM	Session: Raspberry Pi Setup & Configuration	Robostreaks Club
14	25 Apr 2026 10:30 AM–1:00 PM	Session: IoT & Home Appliances; Line Follower Bot	Robostreaks Club
15	1 May 2026 10:30 AM	Session: Sensors & their functions	Robostreaks Club

Table 1: Club activities and participation of robostreaks club during 2025–26.

4. EXORDIUM 2025



Our Robostreaks Club members actively participated in college orientation programmes, including Exordium, by showcasing their innovative technical projects and demonstrating their practical applications.

Through interactive demonstrations and engaging discussions, they introduced students to the exciting world of robotics and emerging technologies, fostering curiosity, encouraging technical exploration, and inspiring innovation among the student community.

5. ROBO EXPO – ROBOSTREAKS EXHIBITION



Robo Expo, the Robostreaks Club's robotics exhibition, was held at Parala Maharaja Engineering College as a platform for club members to display robots, models, and technical projects they developed, and to introduce college students to the world of robotics and automation.

Faculties and students saw the working of various robotic and technical projects, interacted with the members who built them, and learned about the concepts, components and technologies involved. The exhibition also raised club awareness and encouraged newcomers to take an active interest in robotics. Robo Expo gave members valuable experience in presenting technical work, explaining ideas to an audience and organising a public exhibition.

- **Date:** 13th September 2025
- **Venue:** Parala Maharaja Engineering College
- **Mode:** Offline

6. VISWAKARMA PUJA



The members of the Robostreaks Club celebrated Vishwakarma Puja on 17 September 2025, honouring Lord Vishwakarma, the divine architect and deity of craftsmanship, engineering, and technology. The celebration reflected the club members' respect for technical knowledge, creativity, and innovation, while fostering unity and strengthening their appreciation for the spirit of engineering and technological excellence.

- **Date:** 17th September 2025
- **Venue:** Robostreaks Club

7. ROBORISE 2K25 – CLUB ORIENTATION



Roborise 2K25 was the orientation programme of the Robostreaks Club, conducted to welcome new members. It was their first step into the world of innovation and robotics, introducing the club, its activities and the learning path ahead for the year.

- **Date:** 1st November 2025
- **Time:** 10:30 AM
- **Venue:** Robostreaks Club, Utility Block
- **Mode:** Offline

8. ROBOTICS CLUB TRAINING SESSIONS (NOVEMBER 2025)

Following the orientation, regular training sessions for new members began at the Robostreaks Club, covering the fundamentals of robotics that form the foundation for all future projects. Members were required to attend and mark their attendance. Senior members of the club conducted the sessions, and are summarised below.

SL. NO.	DATE & TIME	TOPICS COVERED	MODE
1	Early Nov 2025 10:30 AM	Fundamentals of robotics – first session of the club	Offline
2	6 Nov 2025 5:00 PM – 5:40 PM	Hardware & Control Systems: motor drivers, ESC, Arduino IDE installation, boards, connections and control protocols. ID cards were distributed to members during this session.	Offline
3	10 Nov 2025 5:00 PM	Basics of Robotics (approx. 20 minutes)	Offline
4	Mid Nov 2025	4th class – basics of robotics	Offline
5	19 Nov 2025 7:30 PM	Arduino Uno basic code syntax and logic, running an ultrasonic sensor and servo motor, LED blinking code, and introduction to Tinkercad	Online
6	21 Nov 2025 5:00 PM	Soldering demonstration; basics of DC motor attributes (RPM, torque, voltage, current) and their relation to bot requirements; fundamentals of hardware chassis design for Robo Sumo and Robo Race bots	Offline
7	22 Nov 2025 11:15 AM – 12:30 PM	3D modelling and its applications in robotics; CAD software; introduction to SolidWorks, its features and interface; 2D sketch design.	Offline

Members were also given practical assignments, including creating short videos, to reinforce learning. A cheat sheet, “Choosing the Right Parts”, was shared with members to help them choose components for Robo Race and Robo Sumo bots.

9. ALUMNI INTERACTION SESSION

The club organised an online alumni interaction session over Google Meet at 3:00 PM IST, inviting our alumni, Mr. Sumit Tripathy to share their experiences and the power of networking and sponsorship with current members. The session gave members insight into career paths, projects and industry expectations.

- **Date:** 1 November 2026
- **Time:** 3:00 PM IST
- **Mode:** Online (Google Meet)

10. DRONE BUILDING WORKSHOP



A drone building workshop was conducted for the members of the club, introducing them to the components, assembly and working of drones.

- **Date:** 8th February 2026
- **Time:** 4:00 PM
- **Venue:** Robostreaks Club
- **Mode:** Offline

11. ROBOMANIA 2K26 – AWARENESS MEETINGS

Before the tech fest, awareness meetings were held for the upcoming events of Robomania 2K26. Interested students, even without prior knowledge or a team, were encouraged to attend and participate.

SL. NO.	DATE	EVENT
1	25 Feb 2026	Line Follower
2	26 Feb 2026	TIC
3	27 Feb 2026	Robo Race & Robo Sumo

12. ROBOMANIA 2K26 – ANNUAL TECH FEST OF ROBOSTREAKS

Robomania, the annual tech fest of the Robostreaks Club, was organised at Parala Maharaja Engineering College. As the club's flagship event, it brought together students and participants for two days of robotics competitions, technical events and innovation-driven activities, including Line Follower, Robo Race and Robo Sumo.

The fest was planned, coordinated and executed by the members of the club, who took responsibility for event planning, arena preparation, technical setup, participant coordination, judging support and overall management. Its successful conduct gave members practical exposure to organising a large-scale technical event and strengthened their leadership, teamwork and time-management skills.

- **Start Date:** 6th March 2026
- **Duration:** 2 Days
- **End Date:** 7th March 2026
- **Venue:** Parala Maharaja Engineering College

12.1 Robo Sumo Competition



Bots built by the club's members competed in head-to-head bouts that tested the strength, design, control and strategy of each bot.

POSITION	TEAM	MEMBERS
Winner (1st)	Infinity Ultron	Biswajit Swain, Arpit Kumar Khamari, Ashutosh Nayak
1st Runner-up	Kung Fu Panda	Avinash Mohapatra, Spandana Behera, Jyotirmayee Patnaik
2nd Runner-up	Infinity Nexus	Sibam Patnaik, Swastik Das, P.S. Mahanambrata Mohanty

12.2 Line Follower Competition



Participants built autonomous robots that followed a marked path accurately and quickly, testing sensor calibration, control algorithms and circuit design.

POSITION	TEAM	MEMBERS
Winner (1st)	Epics	Rajasmita Lenka, Ashutosh Jena, Anish Maity

12.3 Robo Race Competition



Teams built fast, well-controlled robots to complete a race track in the shortest time, testing speed, stability and design optimisation.

POSITION	TEAM	MEMBERS
Winner (1st)	Fire Wizard	Om Pratyush Nayak, Om Prakash Behera, Aditya Prasad Singh Samanta
1st Runner-up	Helter Squad 2.0	Aditya Kumar Sahu, Om Prakash Swain
2nd Runner-up	Tech Titan	Aditya Prasad Singh Samanta, Prabhudutta Mohanty

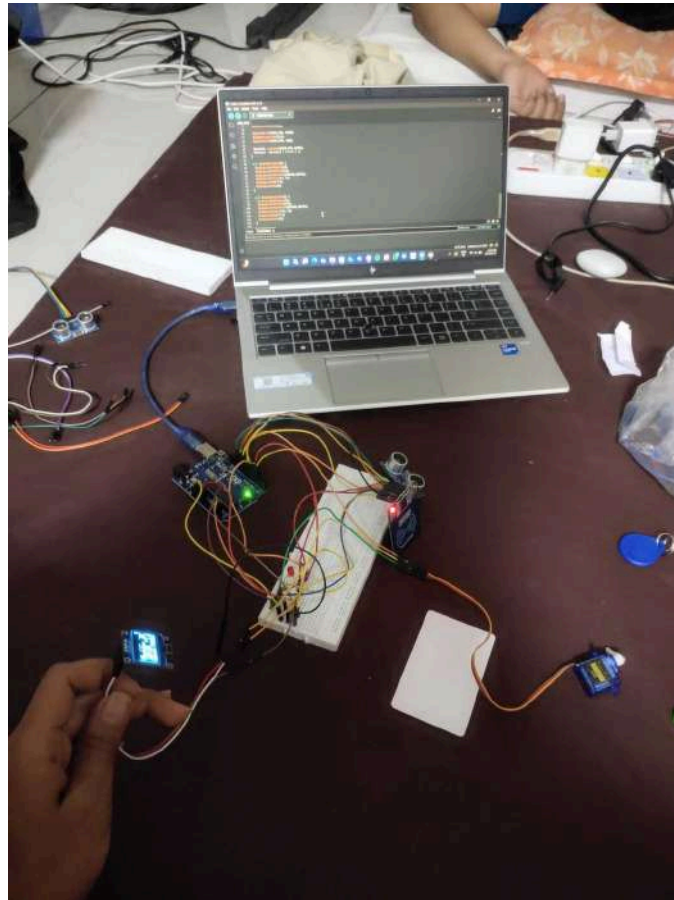
12.4 TIC Competition



The college students participated in TIC - The Innovation Challenge organised by the Robostreaks Club at Room No. 110 among the groups of young minds with brilliant minds and innovative ideas as a part of series of the Robomania competitions

POSITION	TEAM	MEMBERS
Winner	Turrtech	P. Nikita, Suhana Sahu, Pranay K. Singh, Ghulam Qadir

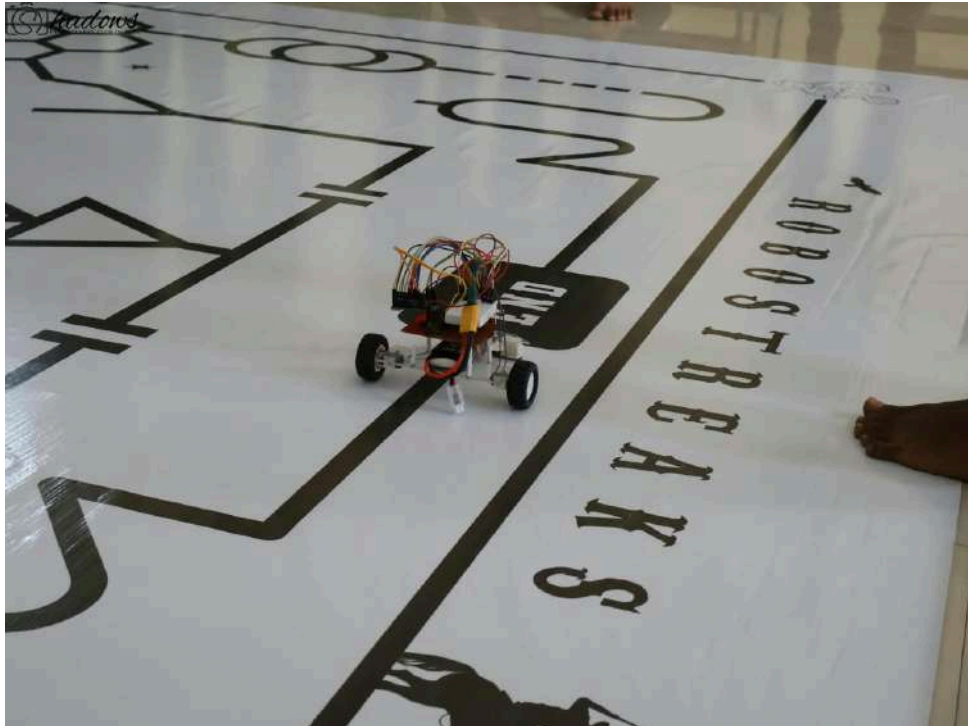
13. RASPBERRY PI & ARDUINO UNO SETUP AND CONFIGURATION SESSION



Club classes were resumed with a session on Raspberry Pi setup and configuration. The session included a brief introduction to the Raspberry Pi single-board computer, covering its basics, applications and fundamental concepts, followed by hands-on learning on setup and configuration using both wired and wireless methods.

- **Date:** 11th April 2026
- **Time:** 11:00 AM
- **Venue:** Robostreaks Club
- **Mode:** Offline

14. SESSION ON IoT AND LINE FOLLOWER BOT



A session was conducted for all members on IoT and home appliances and on building a Line Follower bot, with members encouraged to actively take part in the interaction.

- **Date:** 25th April 2026
- **Time:** 10:30 AM – 1:00 PM
- **Venue:** Robostreaks Club
- **Mode:** Offline

15. SESSION ON SENSORS AND THEIR FUNCTIONS



A session on sensors and their functions was planned for members to understand more about the working, functions, and types of sensors.

- **Planned Date:** 1st May 2026
- **Time:** 10:30 AM
- **Venue:** Robostreaks Club

16. PARTICIPATION IN EXTERNAL HACKATHONS AND COMPETITIONS

Apart from events held at PMEC, members of the club represented the college at hackathons, robotics competitions and technical fests organised by other institutions. These are described below.

16.1 Smart India Hackathon 2025



The club members participated in the Smart India Hackathon, a nationwide innovation initiative in which student teams develop technology-based solutions to real-world problem statements. The Department of Consumer Affairs (DoCA) offered the problem statement for the team. The team reached the Finals and was recognised as a Finalist, bringing recognition to PMEC at the national stage.

POSITION	TEAM	MEMBERS
Finalist	WeighOut	Arpit Kumar Khamari, Babul Swain, Aditya Prasad Singh Samanta, Aditya Kumar Sahoo, Sindhuripa Mishra, Bagmita Mohapatra

16.2 Terratrek Competition, IIIT Bhubaneswar

Date: 9 November 2025



Members of the club participated in the Terratrek Competition organised by IIIT, Bhubaneswar, which tested skills in designing and operating robotic systems under competitive conditions. Winning is a remarkable achievement for the club.

POSITION	TEAM	MEMBERS
Winner (1st)	Robonova	Satyajit Sethi, Anwesha Patra, Riya Jaiswal, Rabi Narayan Gouda

16.3 BPUT Hackathon 2025



The club participated in the BPUT Hackathon organised by Biju Patnaik University of Technology, which gave students a platform to build innovative solutions within a limited time and present them before evaluators. Two teams from the club took part. The 2nd Runner-up team was mentored by Dr. Niranjana Panigrahi.

POSITION	TEAM	MEMBERS
2nd Runner-up (3rd position)	CodeRiot	Priyanshu Sethy, Rubina Acharya, Amit Beura, Rashmi Ranjan Mohapatra, Indrajit Jena
Finalist	Zenith	Ansita Priyadarshani, Sanchit Tandia, Malaya Ranjan Behera, Abinash Panda

16.4 Advaita 2K25, IIIT Bhubaneswar

Date: 29 March 2025

Members of the club participated in Advaita 2K25, the technical fest organised by IIIT, Bhubaneswar, where teams from various institutions competed in technical events. Two teams from the club represented PMEC.

POSITION	TEAM	MEMBERS
Winner (1st)	Infinity Prime	Sagar Swarup Sahoo, Sahil Sethy, Biswajit Swain
2nd Runner-up	Infinity Nexus	Sibam Patnaik, Swastik Das, Deepak Sahoo

16.5 Avastra Techno Cultural Fest, Einstein Institute of Technology

Date: 21 March 2025



The club participated in the technical competition of Avastra Techno Cultural Fest organised by Einstein Institute of Technology. The win strengthened the club's record at inter-college events.

POSITION	TEAM	MEMBERS
Winner (1st)	Infinity Ultron	Biswajit Swain, Deepak Sahoo, P.S. Mahanambrata Mohanty

16.6 Hack For Tomorrow, VSSUT Burla



The club participated in Hack For Tomorrow organised by VSSUT, Burla, a hackathon inviting students to build innovative technology solutions within a limited time. Two teams from the club took part.

POSITION	TEAM	MEMBERS
Winner (1st)	Vision	Rajasmita Lenka, P.S. Mahanambrata Mohanty, K Sibaram Patro
1st Runner-up	Feme Vision	Seikh Souvagya Mustakim, Biswajit Polai, Sujal Charati, Deepak Sahoo

16.7 Inventory Expo, IIIT Bhubaneswar

Date: 17th March 2026



Team TurrTech secured the 3rd position at the Inventory Expo held at IIIT, Bhubaneswar, and was appraised for their unique project.

POSITION	TEAM	MEMBERS
Third Position	Turrtech	P. Nikita, Suhana Sahu, Pranay K. Singh, Ghulam Qadir

17. SUMMARY OF ACHIEVEMENTS 2025–26

The positions secured by club members during the year are summarised below.

SL. NO.	EVENT	ORGANISER	POSITION	TEAM
1	Smart India Hackathon	Dept. of Consumer Affairs (DoCA)	Finalist	WeighOut
2	Terratrek Competition	IIIT, Bhubaneswar	Winner	Robonova
3	BPUT Hackathon	BPUT	2nd Runner-up	CodeRiot
4	BPUT Hackathon	BPUT	Finalist	Zenith
5	Advaita 2K25	IIIT, Bhubaneswar	Winner	Infinity Prime
6	Advaita 2K25	IIIT, Bhubaneswar	2nd Runner-up	Infinity Nexus
7	Avastra Techno Cultural Fest	Einstein Institute of Technology	Winner	Infinity Ultron
8	Hack For Tomorrow	VSSUT, Burla	Winner	Vision
9	Hack For Tomorrow	VSSUT, Burla	1st Runner-up	Feme Vision
10	Inventory Expo	IIIT, Bhubaneswar	3rd Position	TurrTech
11	Robo Sumo (Robomania 2K26)	PMEC	Winner	Infinity Ultron
12	Robo Sumo (Robomania 2K26)	PMEC	1st Runner-up	Kung Fu Panda
13	Robo Sumo (Robomania 2K26)	PMEC	2nd Runner-up	Infinity Nexus
14	Line Follower (Robomania 2K26)	PMEC	Winner	Epics
15	Robo Race (Robomania 2K26)	PMEC	Winner	Fire Wizard
16	Robo Race (Robomania 2K26)	PMEC	1st Runner-up	Helter Squad 2.0
17	Robo Race (Robomania 2K26)	PMEC	2nd Runner-up	Tech Titan

18. CONCLUSION

The academic year 2025–26 was a productive and rewarding year for the Robostreaks Club of PMEC. Through Robo Expo, Roborise, its regular training sessions and workshops, Robomania 2K26 and the consistent performance of its teams in hackathons and robotics competitions, the club created numerous opportunities for students to learn, innovate and excel.

The achievements recorded during the year reflect the dedication, creativity and teamwork of the club members. The Robostreaks Club looks forward to continuing its efforts to build a strong culture of robotics and innovation at PMEC and to achieve greater success in the years to come.

Prepared by:

Robostreaks Club

Parala Maharaja Engineering College (PMEC)