



REPORT

Race a Robo

Date: 23rd Feb, 2025.

IEEE HIT Student Branch successfully conducted **Race-a-Robo**, a thrilling robotics competition and the official culmination of the **Fix-a-Robo** workshop series. Designed to test participants' abilities in both speed and precision, the event challenged teams to race their self-assembled, semi-autonomous bots through a specially curated track featuring sharp turns, checkpoints, and time-bound objectives.

The event drew **enthusiastic participation** from students who had previously taken part in the Fix-a-Robo workshop. Each team utilized **WiFi modules, Arduino-based microcontrollers**, and real-time programming techniques learned during the sessions, turning the competition into a vibrant showcase of applied knowledge.

Competition Format

The format was **time-based**, with bots navigating the track under WiFi control. The team with the **fastest time** and **fewest errors** was crowned the winner. The event venue buzzed with energy, as students cheered on their peers, creating a lively atmosphere of competition, collaboration, and innovation.

Key Outcomes:

Enabled participants to **apply theoretical knowledge** in embedded systems and Arduino programming.

Encouraged optimization of code for **real-time performance** and **stability**.

Boosted **confidence** among first-time robotics enthusiasts.

Fostered a deeper understanding of **teamwork, debugging**, and **hardware-software integration**.



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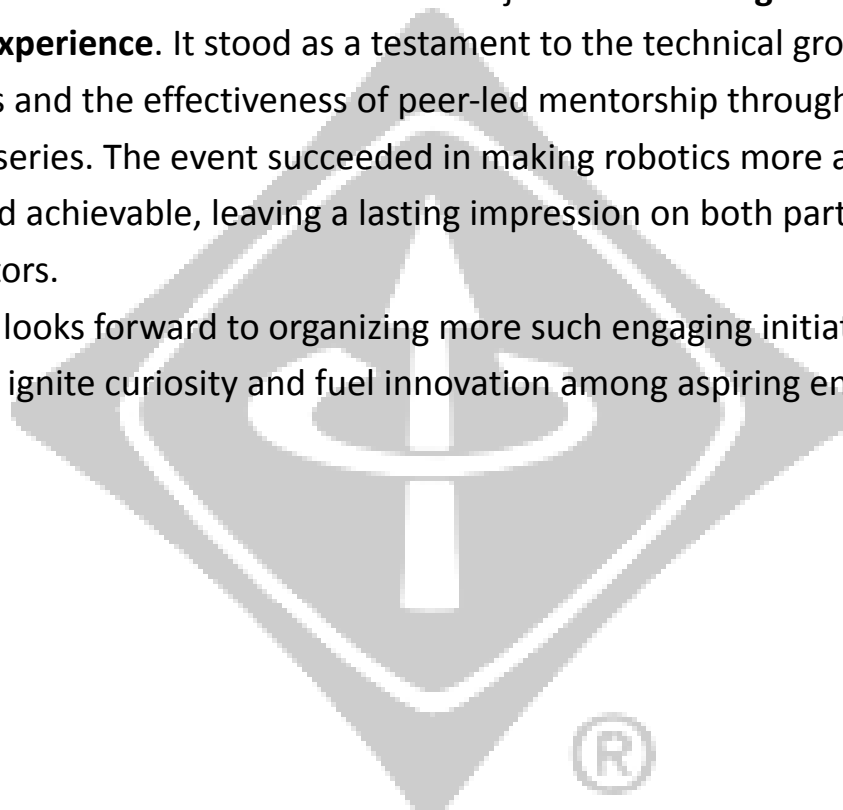


Served as a bridge between **learning and practical implementation** through experiential competition.

Event Impact

Race-a-Robo reflected IEEE HIT SB's core objective—**learning through hands-on experience**. It stood as a testament to the technical growth of participants and the effectiveness of peer-led mentorship throughout the Fix-a-Robo series. The event succeeded in making robotics more accessible, exciting, and achievable, leaving a lasting impression on both participants and spectators.

IEEE HIT SB looks forward to organizing more such engaging initiatives that continue to ignite curiosity and fuel innovation among aspiring engineers.



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