



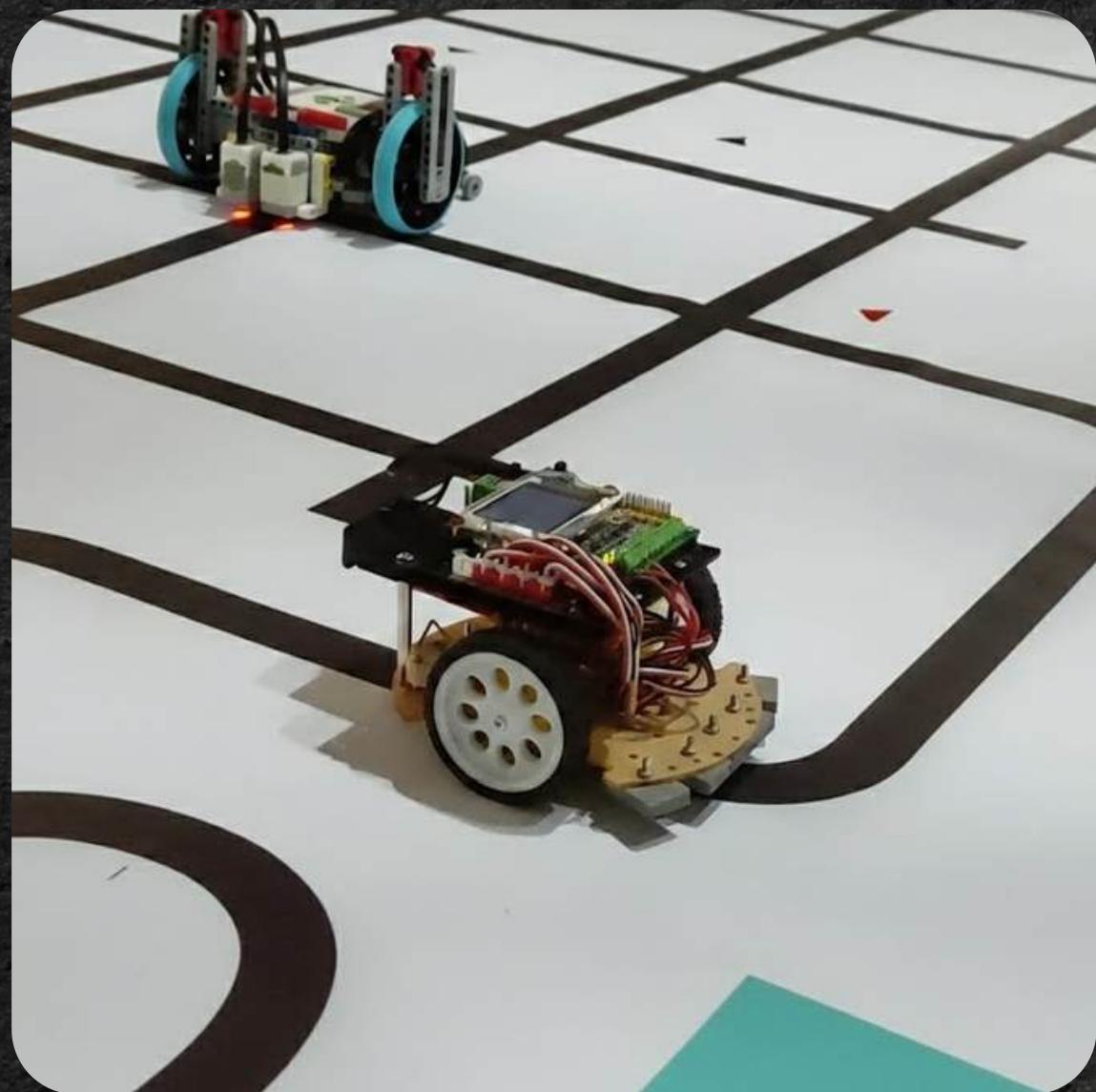
ROBO 3.0 RUMBLE



INSIDE THE EVENT: RULES & PROCESS

LINE FOLLOWING BOT

"A precision-based challenge where robots autonomously follow a predefined line, testing accuracy, speed, and algorithmic control."



OBJECTIVE:-

Teams will design and build an autonomous robot capable of navigating a predefined track by following a black line on a white surface. The event emphasizes precision, speed, and technical expertise. Participants must demonstrate their bot's ability to tackle various challenges, such as sharp turns, intersections, and curves, without human intervention.

GENERAL GUIDELINES:-

- Each team can have 3-5 members.
- Only undergraduate and School students with valid college/school, IDs are eligible to participate.
- The bot must operate autonomously, using onboard sensors and controllers.
- Only onboard batteries are allowed as the power source. External power sources are prohibited.
- The bot must not damage the track; otherwise, the team will be disqualified.
- Registration amount is ₹400/- per team



roborumble.3.0

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DIMENSION OF BOTS:-

- Width: Not More Than 30cm
- Length: Not More Than 30cm
- Height: Not More Than 30cm

REWARDS AND PRIZES:-

- 1st Position: 7,000 Rupees + Winning Certificate + Trophy
- First Runner Up: 5000 Rupees + Winning Certificate + Trophy
- Second Runner Up: 3000 Rupees + Winning Certificate + Trophy
- All the participants will get Participant e-Certificate

POWER SOURCES:-

- Only onboard batteries are allowed as the power source.
- External power sources are prohibited.

ARENA DETAILS-

- The track will consist of a black line (3-4cm wide) on a white background.
- It may include curves, sharp turns, and intersections.
- The arena layout will not be disclosed before the competition to ensure fairness.



INSIDE THE EVENT: RULES & PROCESS

GAMEPLAY:-

- Each team is allowed 2 attempts to complete the track. The better of the two timings will be considered.
- The maximum time allowed per attempt is 5 minutes.
- The bot must restart from the previous checkpoint in case of a deviation.
- Teams are not allowed to modify their bots during the competition.
- The bot with the fastest time wins.

TIME PENALTIES:-

- 5 seconds for track deviation.
- 10 seconds if the bot requires manual intervention to be repositioned on the track.
- Bonus points may be awarded for completing challenging sections flawlessly.

DISQUALIFICATION CRITERIA:-

- Use of external control mechanisms (wired or wireless) during the run.
- Causing damage to the track or interfering with another team's performance.
- Violation of bot size or specification constraints.
- Judges' decisions are final and binding.
- Voltage is capped at 12V DC.