

Event - Line follower

Bot specification:

1. All participating bots must be wireless outside the main body. The bot must fit inside a 30cm x 30cm x 30cm box.
2. Maximum weight of the bot should not exceed 3 Kgs (including batteries).
3. Batteries must be sealed, immobilized electrolyte type (gel cell, lithium- ion, Ni-cad or dry cells). The electric voltage anywhere in the machine should not be more than 12VDC at any point in time for each robot.
4. Optical sensors can be used for detecting the line only if they do not affect other robots.
5. Infrared light reflecting materials must not be used on the outside.
6. Minor parts that reflect infrared light could be used only if other robots are not affected.
7. The bots must not cause any kind of damage to the arena. Any such incidents may lead to disqualification, with decision taken by event coordinators or judges being final.
8. The bots must not hinder the performance of any other bot. In such cases decision of event coordinator or judges will be final.
9. The robot can only be autonomous (hence wireless).
10. Robots must be constructed and programmed in a Way that their movement is not limited to only one dimension and must move in all directions.
11. Any robotic parts / building materials can be used as long as the Robot meets the above specifications. The design and construction should primarily be the original work of the team.
12. Ready-made robots are not allowed to compete in the competition.
13. Any ambiguities in the design and construction of the Robot must be clarified with the event managers before the event.
14. All robots will be checked for conformity with rules before their run and may be disqualified if they do not. The decision of referees or event coordinators will be final in this regard.

Arena Specifications:

- The arena for both the rounds has dimensions of 8 X 8 feet.
- The length and path of track 2 will be revealed only after the completion of round 1.
- The surface of the track will be white with black lines marked on it. The track may contain crossed, curved and discontinuous black lines or a combination of these.
- Track 2 will be more challenging than round 1 with unique path designs.

Rule modification during competition:

- If a rule is found to cause significant negative impact to the competition, the rule may be discarded or improvised under the following conditions:
- The Rules won't be changed in the middle of a match.
- Rules will be changed only for crucial problems, as a last resort.
- The change must be approved by the majority of the team leaders present (and eligible to participate in further round, if rule change occurs after first round.)

Student Coordinator: Mr. Sahil Dabhade, Final Year Electrical Engineering.

N. M. Khandare
Event In-Charge
Line follower