

Line Follower

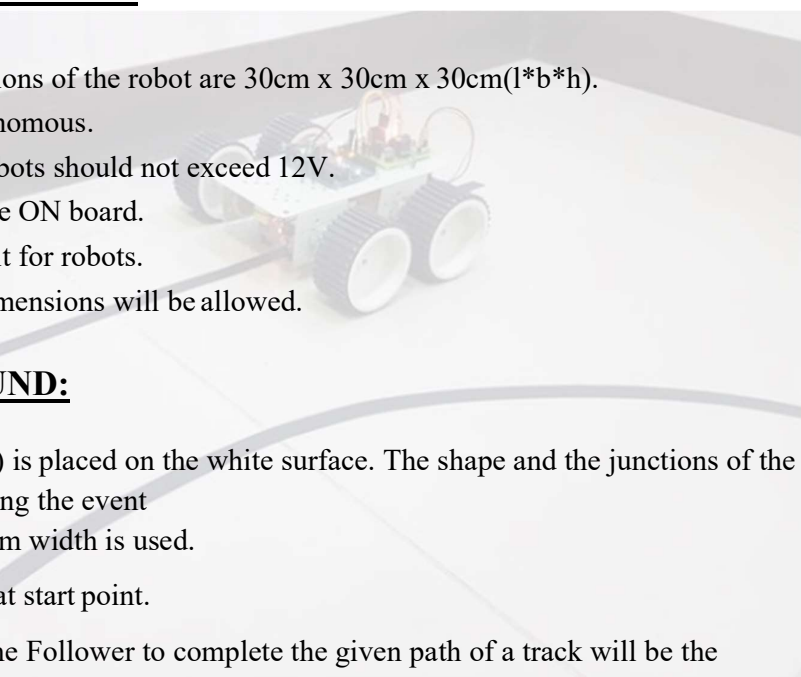
INTRODUCTION:

Finish the line to shine.

PROBLEM STATEMENT:

Build an autonomous robot capable enough to complete given path with least possible time.

ROBOT SPECIFICATIONS:

- 
1. The maximum dimensions of the robot are 30cm x 30cm x 30cm(l*b*h).
 2. Robots should be autonomous.
 3. Power supply to the robots should not exceed 12V.
 4. Power supply should be ON board.
 5. There is no weight limit for robots.
 6. Tolerance of 5% on dimensions will be allowed.

QUALIFYING ROUND:

1. A Black tape (3cm width) is placed on the white surface. The shape and the junctions of the path will be revealed during the event
2. Standard black tape of 3cm width is used.
3. The robot will be placed at start point.
4. The time it takes for a Line Follower to complete the given path of a track will be the recorded time.
5. There will be a few checkpoints on the path if a member wishes he can start again from a completed checkpoint with a penalty in case of any malfunction of the robot.
6. There will be all kinds of junction.
7. There will be two winners one who find the optimized path and another who finishes the path in the shortest time.
8. In the case if more then one robot finds the optimized path the robot which completes the optimized path in the least time will be declared as the winner.

Note: Arena for the qualifying round and the other rounds will be displayed on the day of the event.

ROBOVANZA

RULES AND REGULATIONS:

1. A team can consist of a maximum of 4 members.
2. Members of different institutions can form a team and must carry your respective college ID cards.
3. Only 2 members of a team can stay around the arena (for controlling and assisting).
4. Any kind of damage to the arena will not be entertained, and if done, the robot will be immediately disqualified.
5. No technical assistance will be provided by the coordinators during the time of the event.
6. No practice runs will be provided.
7. Use of an IC engine in any form is not allowed.
8. Human interference (e.g. touching the robot, stepping into the arena) during the game is not allowed.
9. No external power supply will be provided at the time of event.
10. A robot with the base of a toy car and its gearbox as a machine part will be disqualified. Also, LEGO kits are strictly prohibited.
11. Member participated from a team cannot participate in another team for the same event.
12. A robot can participate only once in that particular event.
13. The organizers are not responsible for any kind of damage to your robot.
14. In case of any discrepancies, the decision of the coordinator and the event head shall be final, and no further arguments shall be entertained.
15. The teams should bring their own toolkits.

CERTIFICATE POLICY:

1. A certificate of participation will be awarded to all participating teams except for the disqualified team.
2. A certificate of appreciation (or excellence) would be awarded to the winners:
 - *Prize for least time to complete the path.
 - *Prize for using best/optimal path.

For any queries contact:

Nitin: 7893498346

Srinivas: 9666692492

Date:05-08-19