

LINE FOLLOWER

INTRODUCTION:

The objective of this contest is to complete the maze using an autonomous bot that follows a black line on a white background without losing the line and navigating several turns.

PROBLEM STATEMENT:

To build an autonomous bot capable of completing the course in the shortest period of time while accurately tracking the course.

ROBOT SPECIFICATION:

- The maximum dimensions of the robot are 30cm x 30cm x 30cm (l*b*h).
- Robots should be autonomous.
- Power supply of the robots should not exceed 12V.
- Power supply should be ONBOARD.
- Tolerance up to 5% on dimensions will be allowed.

QUALIFYING ROUND:

- A black line of 3cm wide is placed on a white surface. The shape of the path will be revealed at the event.
- The robot will be placed at the start point by the event organiser.
- Two minutes time will be given for calibration after the placement of the bot at the starting point.
- The time taken by the bot to complete the course will be recorded.
- There will be any kind of junctions.
- There will be few checkpoints on the path. If a member wishes, they can start again from recently completed checkpoint with a penalty in case of any malfunction of the robot.

NOTE: Arena will be displayed for qualifying or other rounds on the day of the event and penalties will be told on the day of event.

RULES AND REGULATIONS:

- The team can consist of not more than 4 members
- Members of different institutions can form a team.
- All the participants must carry their respective college id cards.
- Any kind of damage to the arena will not be entertained and will lead to disqualification.
- No technical assistance will be provided by the organisers during the event.
- No practice runs are allowed.
- Use of IC engines are not allowed.
- NO human interference is allowed during the course.
- A robot with a gearbox or any kind of LEGO kits will be disqualified.
- A robot can participate only once during the event.
- The organizers are not responsible for any kind of damage to the robot.
- In case of any discrepancies the decision of the coordinator or the event head will be final.
- The teams should bring the own toolkits.

CERTIFICATE POLICY:

- The certificate of participation will be awarded to every team except the teams that are disqualified.
- The certificate of merit will be awarded to the winners, along with the prize.

CONTACT: Ziyad Ahmed (9542963191)

Sriram (7093032750)