

Line Follower Robot

A line follower robot is an autonomous robot which detects a black line in white area and must keep following it. For special situations such as cross overs where robot can have more than one path which can be followed, predefined path must be followed by the robot.

Objective

To design an autonomous bot that follows the black line and finishes the track with maximum accuracy in minimum time.

Bot Specifications

Bot size: 10 cm X 10 cm X10 cm.

Max Battery Rating: 12V, 1.2A.

Motor Specification: 100 rpm -200 rpm

Rules & Gameplay:

1. Events will be conducted in two phases i.e. Prelims and Finals. The teams for the finale will be selected on the basis of the performance in prelims. The track for finale will be disclosed 30 minutes before its commencement. Any member of the registered team is found damaging or making changes in the track, the team will be disqualified.
2. Each team participating will be awarded 1000 points in the beginning of the competition.
3. Points will be deducted according to the time taken by the bot to complete the track. 25 points will be deducted per 30 seconds.
4. Each team will be rewarded 2 free reset which provides them the opportunity to put back their bot on the line (in case the bot gets confused and goes out of track).
5. For subsequent resets 100 points will be deducted per reset.
6. The team gaining maximum points will be declared as winners.

Team Specification: Not more than 5 members.

Coordinators:

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Members:

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