



AVASTRA'23

LINE FOLLOWER

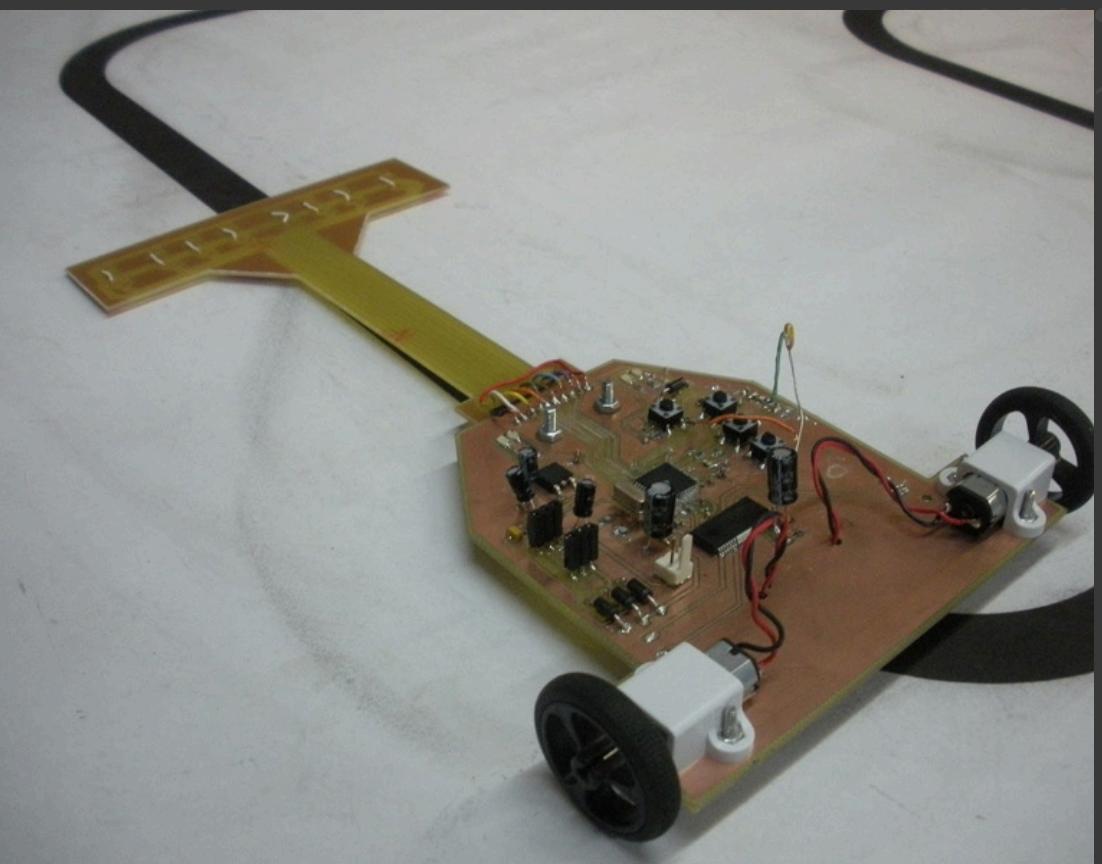
RULEBOOK

EINSTEIN ROBO ABEYAANTRIX CLUB
EINSTEIN ACADEMY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR

DESCRIPTION

Team Size: 2 - 3

The line follower is a type of autonomous robot that follows a pre-defined path, usually a black or white line on a contrasting surface. It uses sensors, typically infrared (IR) or optical sensors, to detect the line and adjust its movement accordingly.



BOT SPECIFICATION

- 1.The Robot must be strictly autonomous.**
- 2.The width of the black or white line will be less than 3cm**
- 3.Dimensions of the Robot should be less than 20cm*20cm*15cm (lxbxh)**
- 4.The participants have to ensure that room lighting, photography etc. does not affect the functioning of the sensors.**
- 5.If the none of the Robots finishes the course, then the one which covered the longest distance in less time will be considered the winner.**
- 6.A power supply should be of maximum 12V.**

JUDGING CRITERIA

1. Shorter completion time score higher.
2. Smooth movement without loosing the track, navigate curves and avoidance of errors.
3. Neat wiring, sensor placement and mechanical stability.
4. Avoiding penalties like skipping checkpoints.

Note: Rules are subject to change if organizers deem it fit.

RULES AND REGULATIONS

- 1. Maximum 3 touches will be allowed for each round. (Each touch make 5 sec penalty.)**
- 2. Maximum Three Participants are allowed in a team.**
- 3. If the machine remains immobile for respectable time then on the spot decision will be taken by the organizers.**
- 4. In case of any tie, winners will be decided based on min, no. errors. The bot with minimum errors is the winner and if there are any ties further, type of bot is considered which is more efficient.**

PRIZES

1st

RS 7,000

2nd

RS 5,000

3rd

RS 3,000

CONTACT US



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