

LINE FOLLOWER

Robotics events are incomplete without a line follower competition. A simple black line on a white background and your robot must follow it. Easy, right? Here's the catch. The track is filled with bends and curves. Nothing comes easy, right?

The task is to build an autonomous robot which is capable of traversing a black line on a white background. The track has bends, curves, T-joints and breaks.

GENERAL RULES:

- A team may consist of a maximum of 4 members. Students from different educational institutes can form a team.
- Any student with a valid identity card of their respective educational institutes is eligible to participate.
- Teams are not allowed to replace parts between runs. They are, however, allowed to replace defective sensors, but with a penalty added to it.
- Change of batteries and modifications to the code are allowed but the game play has to be restarted.
- Any damage caused to the arena at any point of time will lead to disqualification / penalty.
- If the robot is manually touched except at the start, then it will be considered as a violation and will lead to penalty.

EVENT RULES:

- The line to be traced (black line) is of 30mm in width.
- For readymade bots, two warnings will be provided when the bot goes out of the track and in case of handmade robots, three warnings will be provided.
- In such cases, both types of bots will be eliminated if they do not start tracing the line within 10 seconds after deviating from the path.
- Judge's decision will be final and any further arguments with the judges will be penalized.

BOT SPECIFICATIONS:

- The maximum dimensions of the base of the bot should be 25cm x 25cm x 25cm.
- Robots must not use ready-made mechanisms, Lego kits, etc. However, ready-made sensors and microcontroller kits can be used.

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