E’12 | EleXrieg ‘12

Event Details

LINE FOLLOWER

Here is the event with a lot of “twists”. Are you capable of making a chunk of wood or metal follow a line?! Robotics comes to our rescue.

PROBLEM STATEMENT:

Design an autonomous line follower robot that can follow a black line on a white background and reach the checkpoint.

EVENT RULES:

- All teams will be given a calibration time of 10 minutes.
- Maximum time for one trial is 10minutes.
- The starting procedure of the robot should be simple and should not involve activating the machine by any manual force or impulse in any direction.
- The bot will be given maximum two re-starts only. Penalty of 10 seconds will be added in case of a restart.
- Between trials, participants may not feed information about the arena or any other software changes. However, participants are allowed to: adjust sensors (Gain, position, etc), change speed settings and make hardware repairs. Weight shouldn’t be altered.
- Participants are not allowed to keep anything inside the arena other than the machine.
- The judges may stop any robot at any time if they feel that it is performing or about to perform any action that is dangerous or hazardous to people or equipment. No robot is allowed to use any flammable, combustible, explosive or potentially dangerous processes. Judges decision is final.
- Time measured will be final and will be used for scoring the teams.

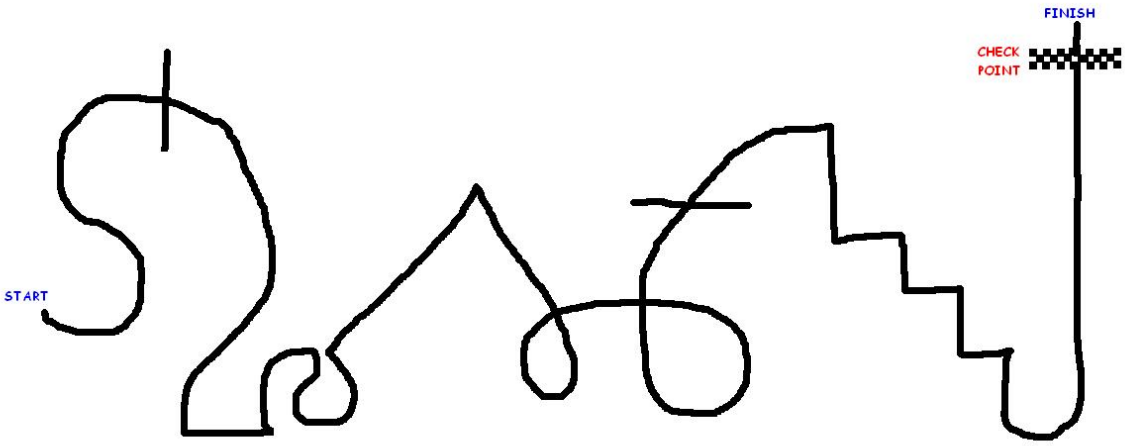
TEAM COMPOSITION:

- Maximum of 3 participants per team.
- Team members need not be from the same college.

DESCRIPTION:

The bot should measure a maximum of only 20cmx20cm. The end of the track will be indicated by a checkpoint (black and white checks). No obstacles will be placed on the track. The black tracks on a white background will consist of sharp curves and turns and abrupt ends.

Scroll Down to See the Track Model



Caution:Original track may vary from the given one :)

For any Queries feel free to mail us : elexrieg12@gmail.com

All The Best