



Line Follower Competition Rules

David van Warmerdam, Luka Nielsen, Milan van de Zanden & Aditya Shekhar

April 23, 2024

1 Participation

1.1 Teams

- Teams will consist of not more than 5 people
- There are restrictions on who can participate as long as your enthusiastic

1.2 Pricing

We are doing our best to keep the team registration costs as low as possible, however now it is too difficult to say how much it would be. The same is true for the kit, which can be purchased separately.

2 Robot

2.1 Size restrictions

- Robots width should not exceed ?cm
- Robots length has no restrictions
- Robots height should not exceed xcm, this depends on the height of the start and finish, tba.

2.2 Power

Total battery capacity may not exceed 10000mAh. There is no limit on the battery voltage.

2.3 Control

The robot must be autonomous. Wireless and or wired communication to the robot is not allowed.



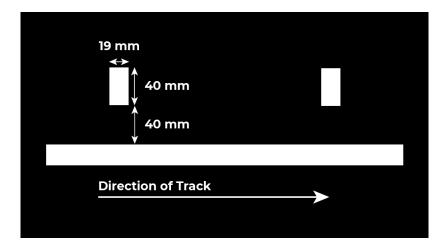


Figure 1: Dimension of track for the start and finish where they are marked by a white marking on the left side of the track

2.4 Components

Components that have a risk of harming by standers are by no means allowed, this is not a battle bot!

3 Track

3.1 Color

The track will be white with black lines.

3.2 Measurements

The total track length is approximately ?m. The line which should be followed has a width of 19mm with 40mm long markings which are 40mm removed from the track. These markings are either given on the right side - these indicate the start and finish - or the left side - which indicate the start and end of a corner. These dimensions are shown in Figure 1 for the start and finish and Figure 2 for a corner.

3.3 Layout

The track will be a loop with a timing device at the starting and finishing markings. A track will consist of straight and curved sections. An example can be seen below



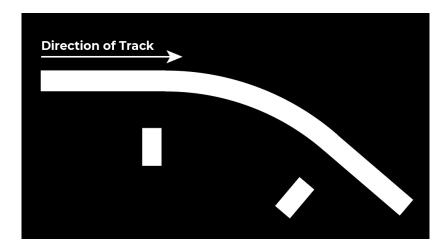


Figure 2: Dimension of track for an arbitrary corner where it is marked by a white marking on the right side of the track

4 Competition

4.1 Competing on time

Each team will run a set of tracks 5 times. The time for each lap is timed automatically. The fastest time out of the 5 will be noted on the scoreboard.

4.2 Set up

The set up and form for the competition will be released later.