

# **ALACRITY'18**

## **THE MAZE:LINE TRACER**

**Maximum Team Members: 4**

**Entry Fee: Rs.100/- (Technical Pass) per head**

**1st Prize: Rs.5000/-\***

**2nd Prize: Rs.2500/-\***

The competition will be based on the thinking capability as well as the speed of the robot. The track will comprise of white strips on black background as well as black stripes on white background.

Participants are expected to build an autonomous line following robot with an algorithm to decode the maze in minimum time duration.

### **Rules and Regulations:**

The competition will be held in 2 rounds.

#### **A] 1st round:**

- All robots completing the track within the specified time limit (max.3mins) will qualify for the next round.
- Time duration won't be counted during this round.

#### **B] 2nd round:**

- Robots are expected to solve the maze while clearing each checkpoint in minimum time possible.
- Points will be given based on time, checkpoints covered, hand touches.

1. The robot should have maximum dimensions of 20cm\*20cm\*20cm
2. Width of the track will be 3cms
3. The track comprises of cuts, sharp curves, 45/90/180 degree turns
4. Each team will be given 3 minutes before the run for calibration, adjustment of the sensors and dry run.
5. Only one operator is allowed to handle the bot during the entire run.
6. The operator needs to wear socks while stepping on the track.
7. Damage to the track will result in immediate disqualification of the participating team.
8. Participants must carry their valid I-card and receipt on event day.
9. Organizers reserve the rights to disqualify any team for their misbehaviour.
10. The decision of organizers will be final and binding.

**Reporting Time:**

The participants should report at the arena at least 15 minutes prior to their round.

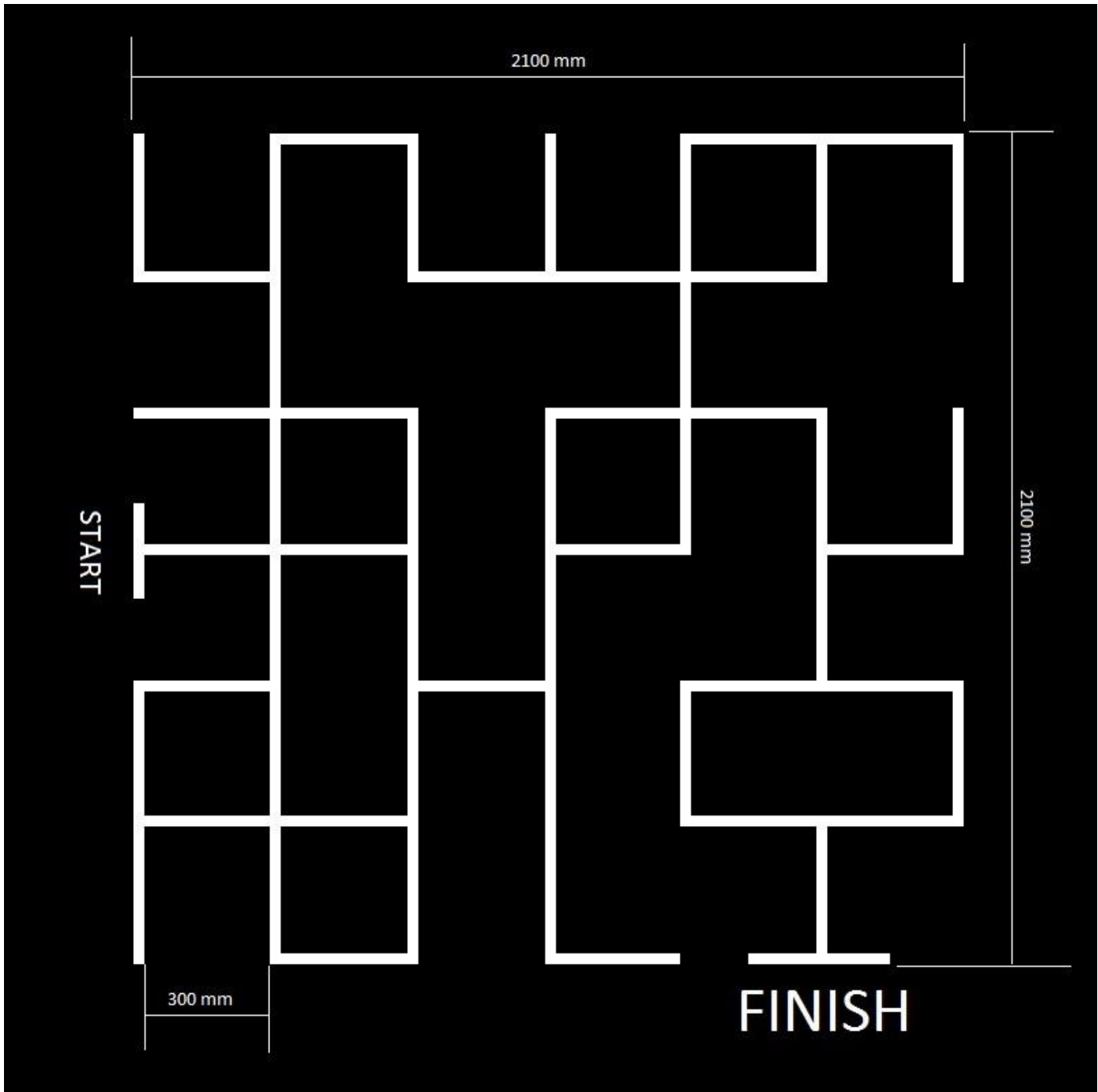
**Event Coordinators:**

Vinit Tirnagarwar	7768853423
Karim Dinani	7887705269
Sumitkumar Gajare	8380937146
Shubham Pusegaonkar	8806857158

**Track Design:**

**Width of the track will be 3cms.**

**Each checkpoint carries points which will be added to the total score.**



2100 mm

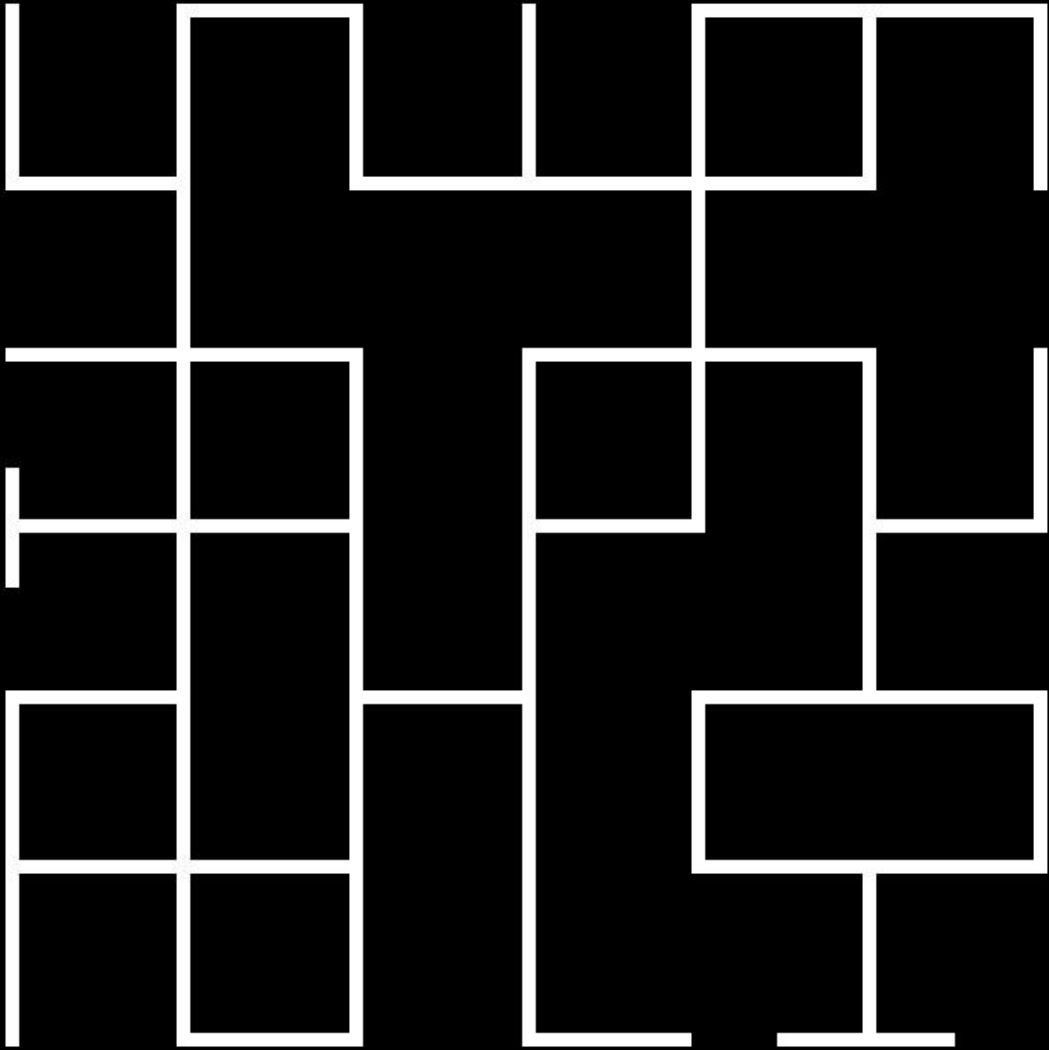
2100 mm

START

300 mm

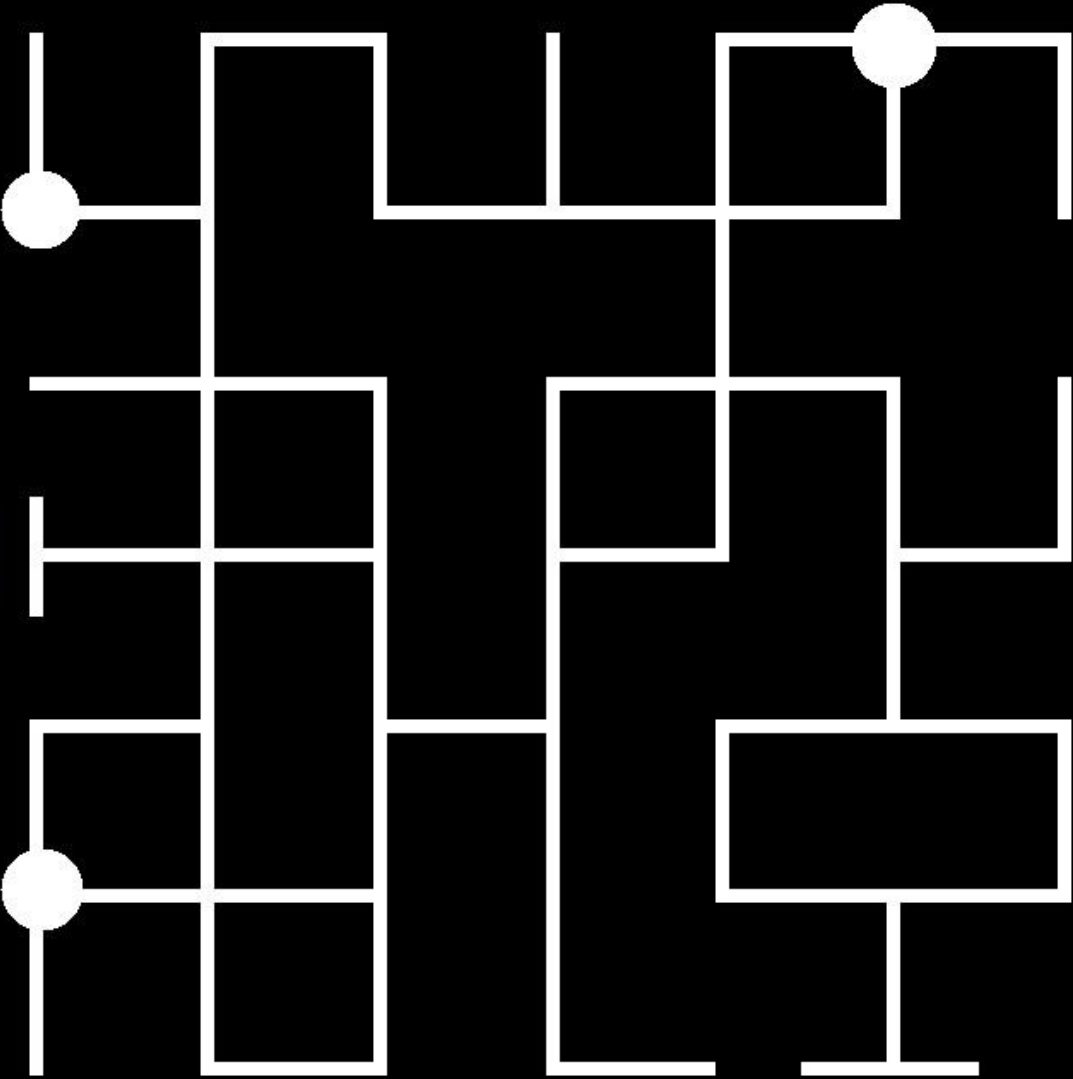
FINISH

START



FINISH

START



FINISH