

WIRELESS MAZE SOLVER

Task

Build a car-robot that can drive through the uneven track overcoming various hurdles, solving maze and reach the end-point in the least time.

Arena

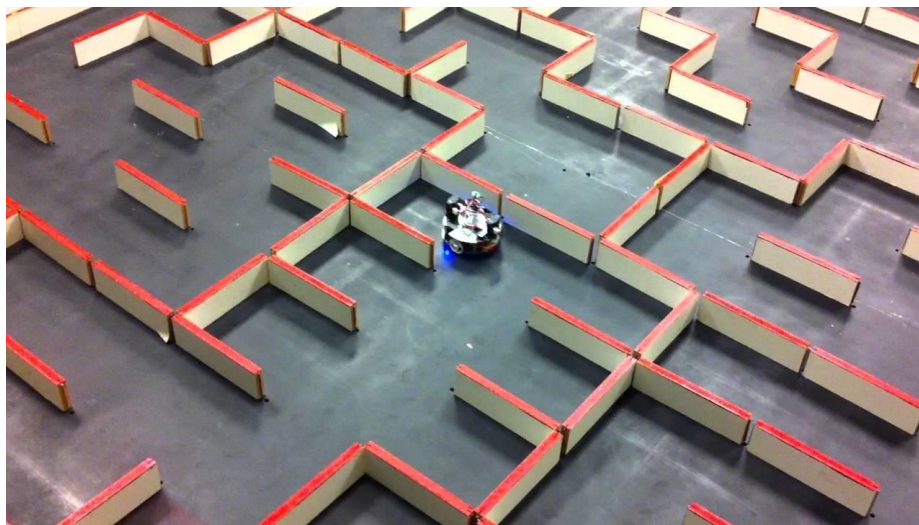


Fig.1. Arena Lookalike

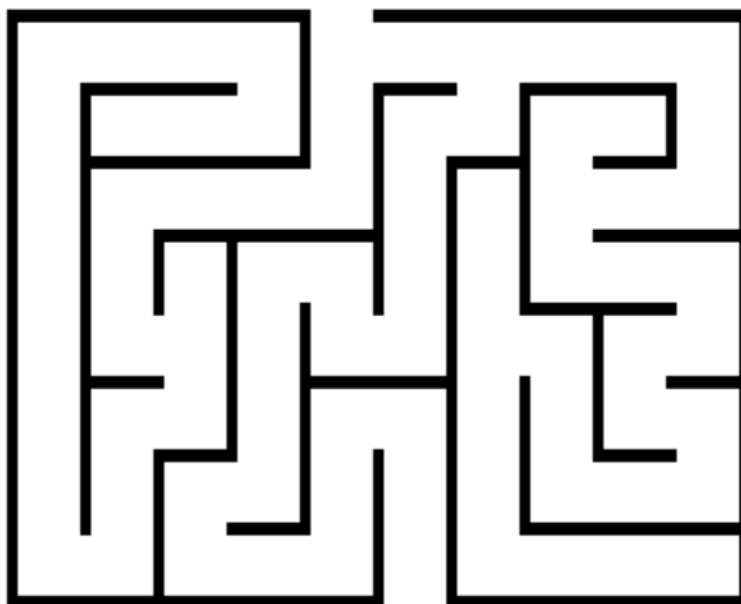


Fig.2. Top View



Track Specifications

- *The width of the track will be of 40 cm.*
- *The race track will be consisting of sharp left-right turns, bumps, slopes, gravels and sand, grease laden surfaces, etc.*
- *Following are some of the main obstacles to be faced in the track:*
 - *Elevated tracks of not more than 30 degree.*
 - *Rough uneven terrains and Long bridges.*
 - *Pit holes and death wells.*
- *For reference of the participant the top view of the maze will be projected over a projector.*
- *The details of the maze and the track will not be disclosed but the obstacles will remain the same as specified in the specifications.*
- *The participants are advised not to use RF technology for the wireless robot as it can be interfered by other participants using the RF technology*

Event Rules

- *Each team should consist of a maximum of 3 members.*
- *Each team should have unique participants i.e. no two teams can have even a single participant common.*
- *The team members can be from different institutes or colleges with their valid id card.*
- *The right spirit of participation is expected from the participants.*
- *The decision of the organizing committee will be final and binding.*
- *The organizing committee reserves rights to change the rules at any time and changes will be notified to the participants at that time*

SCORING CRITERIA

- *Each bot will be separately tested on the track.*
- *There will be two rounds.*
- *Only first five teams of the first round will be eligible for the second round.*
- **ROUND -1 (QUALIFYING ROUND)**
 - *Five teams will be selected on the basis of their points.*
 - **TOTAL POINTS = POINTS SCORED - TIME ELAPSED.**
 - *The points scored will not add to the final result. It will only be considered for qualifying criteria for the final round.*
- **ROUND-2 (FINAL ROUND)**
 - *These five teams will be given another chance to compete with each other separately on the same track.*
 - **TOTAL POINTS = POINTS SCORED - TIME ELAPSED.**
 - *The team scoring maximum points in final round will be declared winner.*
 - *There will be penalty points for touching the robot once the race has been started.*
 - *In case of a tie, the team that elapsed less time will be declared winner.*
 - *Detailed description for the granting of points will be disclosed on the spot by the organizing committee.*



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- *In any case, the bot has to complete the whole track in order to avoid disqualification.*

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