CS684: Embedded System Course

Rulebook: [4] Theme Rules

Final Run

- The maximum time allotted to complete the task is 10 minutes.
- A maximum of two repositions (explained below) is allowed for each team.
- Once the robot is switched on, human intervention is NOT allowed.
- Robot has to follow the black line for traversal.
- For the final demonstration, the Arena Configuration will NOT be given to any of the teams.The robot must navigate through a randomly setup arena and autonomously detect the dummy cars without any prior knowledge of the arena configuration.
  Note: You MUST have a generic solution that can handle any setup, in real-time.
- A run ends and the timer is stopped when:
  - The Robot parks itself or
  - If the maximum time limit for completing the task is reached or
  - If the team needs repositioning but has used all repositioning options.

Repositioning the Robot

Suppose while traversing the arena, the robot strays off the black line, team member can place the robot on the line by dragging (not lifting) the robot back to the line. This is termed as a Reposition. Note that the timer used for measuring the task completion time in the competition will be continuously running during a Reposition and robot will not be switched off.