
DAY 2

TASK B: Speed and Accuracy

Weighting (points out of total): 40 / 100

The robots will be tested on their accuracy and speed. Figure 1 shows the route the robot needs to take. Teams will be shown the route their robot must take and the direction of travel. They will also be given a start and stop area, this will be marked. The robot must do four full circuits of their route and stop in the designated area.

Competitors will have the AM to program and test their robots on the table area. There will be unlimited access to the table at this time.

The judged runs will take place in the afternoon. Each team will be assigned a time slot where they will be given sole access to the table for 10 minutes. During this time it is up to the teams to tell the judges that they are ready to be judged. The judged run needs to be done within the allotted 10 minutes. If the robot is still running the course after the time has run out the team will be asked to stop their robot and they will be judged up to where they ran out of time. There will be a total of two runs.

Scoring

0.25 point – Entering a room (maximum of 10 points). The robot must fully enter in to the next room to gain the points.

1 point – Every complete lap (maximum 4 points). The robot must fully enter the room it began in to count as a complete lap.

3 point – For stopping in the designated area. Robot must be fully within the designated area to gain the points.

3 points – For the fastest time

2 points – For the second fastest time

1 point – For the third fastest time

Total of 20 points per run

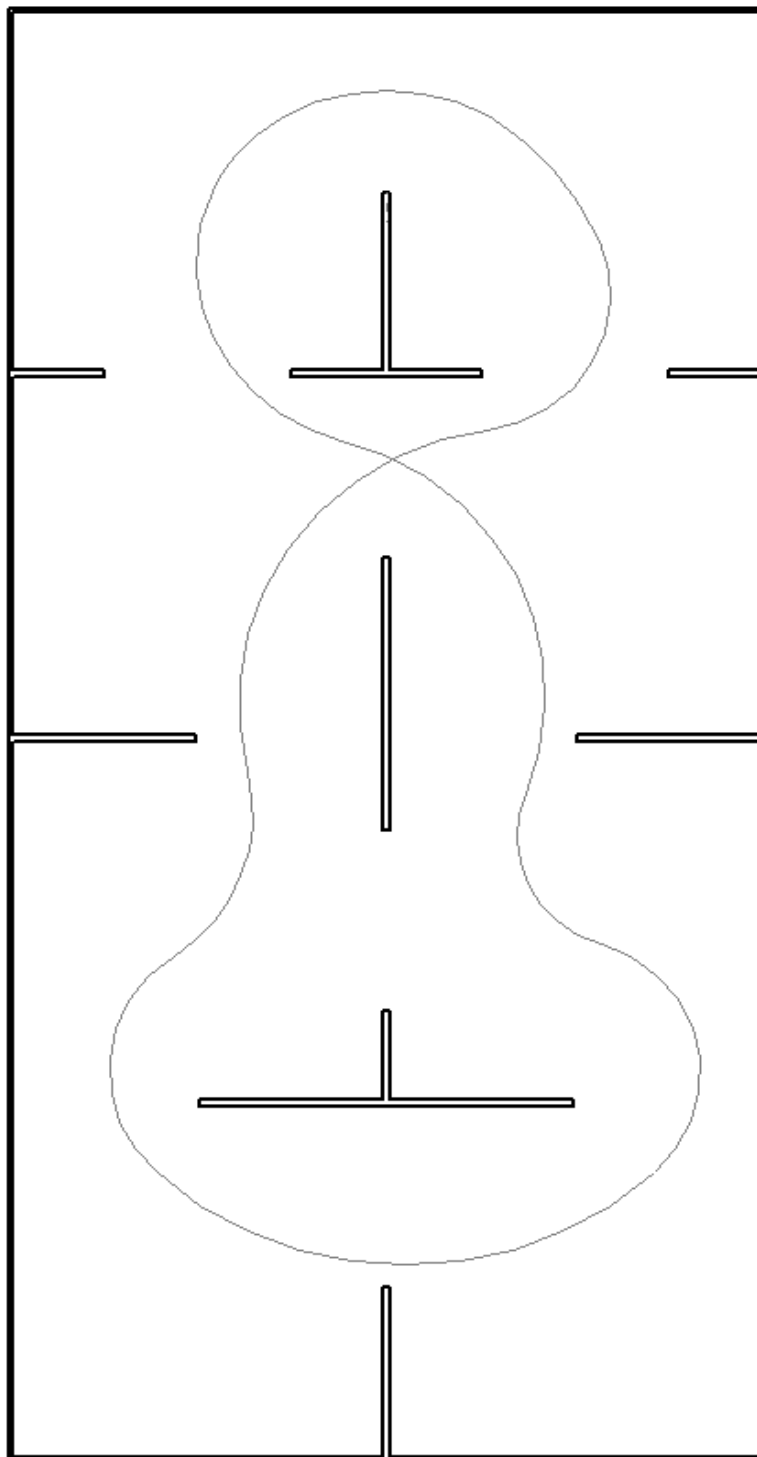


Figure 1.