

Factory transportation2



Deadline: 16.5.2021

Points: 25

Material requirements: your robot, a gripper 9 small balls ca 3cm (z.B. Pompoms), a 10 cm high plattform max. 20x20 cm, your Linefollowing-Parcours

Topic description

A robot has even more tasks in a factory than "just" getting from one place to another. It often has to transport items so that they can be used elsewhere without humans having to intervene. Now you're supposed to go one step further and pick up goods directly along the way and deliver them for further processing.

We wish you a lot of fun with this and the following tasks!

Task description

- **Build a gripper**

To complete this task, you will first need a gripper that you can use to pick up objects (balls) from the ground to transport them from one place to another. Upload us a photo of your gripper. You can, of course, use a gripper that you have already built.

- **Factory transportation**

For this task, use the linefollowing course that you also needed for the linefollowing task. At the end of the course, build a platform with at least 10 cm high and no larger than 20x20 cm. Now place 3 balls on each cross line of your course (see illustration) . Try to get as many balls as possible onto the platform at the end of the course. Upload us a video of this as well as your code.

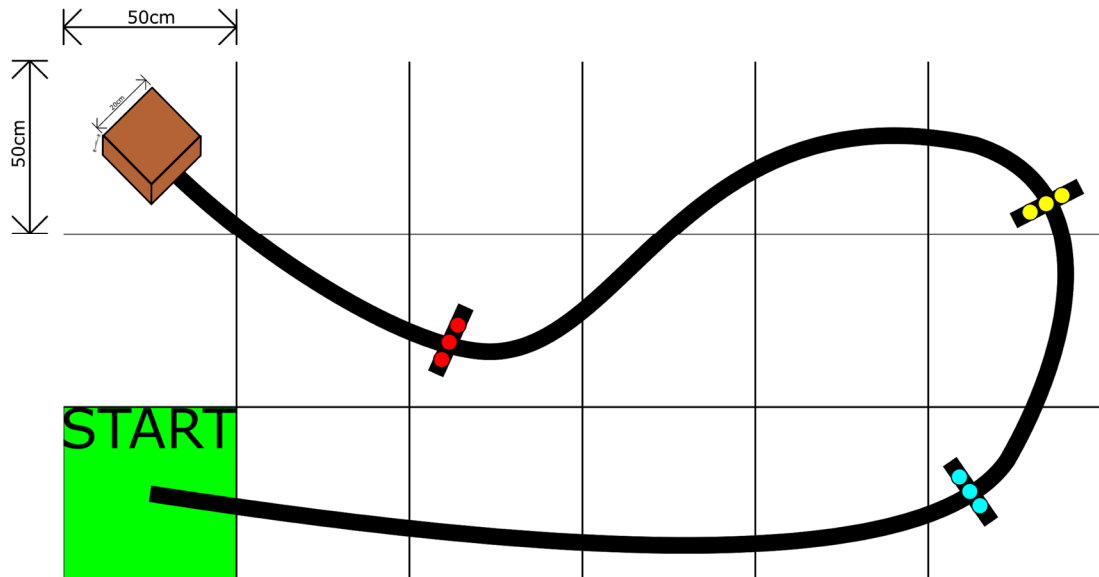
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Evaluation criteria

- Picture of the gripper
- Number of balls on the platform after factory transport
- Jury evaluation: The jury evaluates the quality and creativity of the submission.