

# Linefollower – follow the line

Deadline: 16.5.2021

Points: 15

Material requirements: Your mobile robot, sensors, tape



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## *Topic description*

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In large factories in particular, robots are taking over more and more of the heavy and boring work from humans. They often drive through factories and transport things from one place to another - to be able to orient themselves, there are often colored lines on the floor of the factories.

Now you take on the role of an automation technician and make your robot follow a black line.

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

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## *Task description*

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- **Tape yourselves a course**

Use duct tape to create a course that is as similar as possible to the picture.

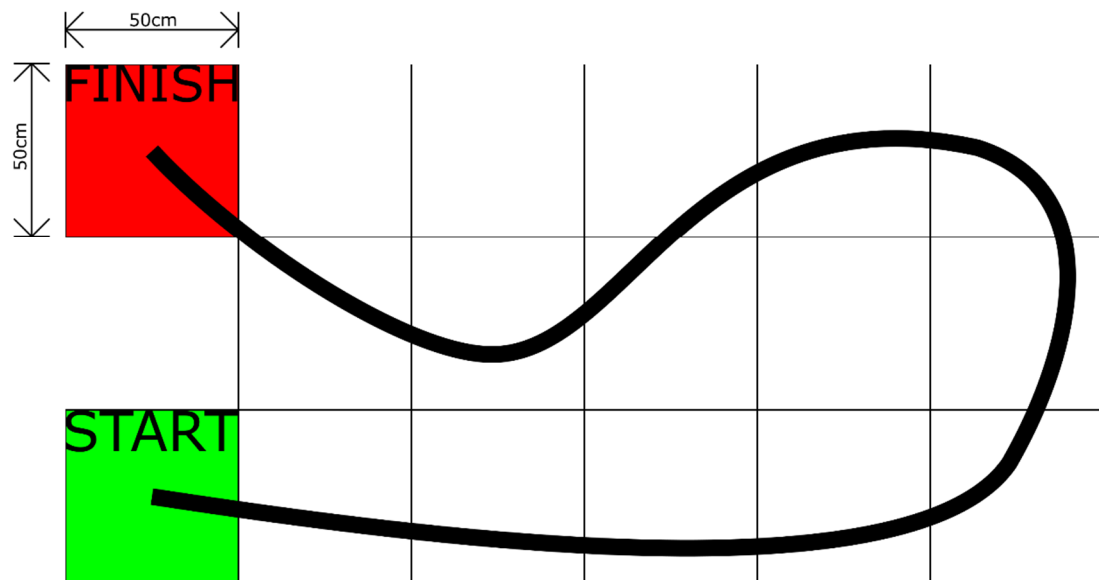
To inspire our jury, you can of course add your own ideas to the course (but it's best to do this only when you can master the given course). Upload a picture of your course. Small tip: you will probably need the course in future tasks - maybe you can tape it on a very large paper to be able to reuse it. The cross lines mark the zones and should serve you as checkpoints.

# Linefollower – follow the line

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- **Follow the line**  
Now try to follow the black line with your robot - sensors make this task much easier!  
Upload us a video of the best possible run and your code

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### *Evaluation criteria*

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- Upload of a photo of your created course
- Followed the black line as far as possible (checkpoints) on your video
- Upload the video and the code
- Jury evaluation: The jury evaluates the quality and creativity of the submission.