

LEGO MINDSTORMS Challenge

10th-12th of October 2011 – Teknisk Gymnasium Esbjerg

Description:

Follow the lines! Can you follow the line around the courses using light-sensors? You have three days to construct a robot, that can complete the course.



The challenge is divided in two parts, where the following will be evaluated:

- The fastest robot to complete the course.
- The best design.

This means, you have to consider how to improve the design of the robot. Maybe you want the robot to stop in case of an obstacle on the course – followed by signals from the acoustic transducer. Use techniques for creative thinking, and impress the judges with your innovative ideas.

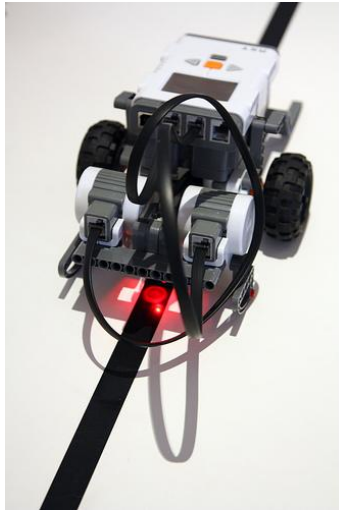
Materials:

Introduction – sensors and coding LEGO Mindstorms

Course

LEGO Mindstorms

Camera



Evaluation:

- Each group record a video showing the robots moving around the course. The videos must be uploaded on youtube.
- Each group produce documentation of the robot - including specifications, coding, bill of materials and photos. Deadline: 13.30 - 12th of October.

Hints:

<http://www.youtube.com/watch?v=w5dTUlj3HJQ&feature=related>

<http://www.youtube.com/watch?v=PzZhslIrsE0&NR=1>