

delivery bot EM2019WSP06

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Overview

Bisherige Ergebnisse

TODOs

Planaenderungen

Problems

Questions?

Bisherige Ergebnisse:

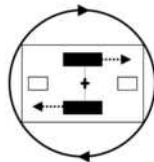
- **Differential drive:**

Driving straight, forward:

$$vL = vR, vL > 0$$

Turning on the spot, counter-clockwise:

$$vL = -vR, vL > 0$$



- **IR Sensors:**

Returns Boolean Value if black line is detected.

- **Color Sensor:**

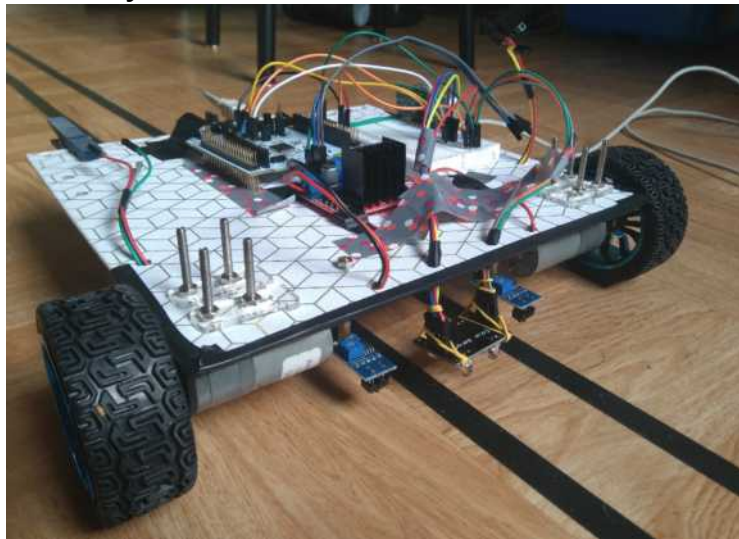
Blue Color can be detected with high precision.

- **Ultrasonic Sensor:**

Returns distance in mm.

Bisherige Ergebnisse:

-Assembly

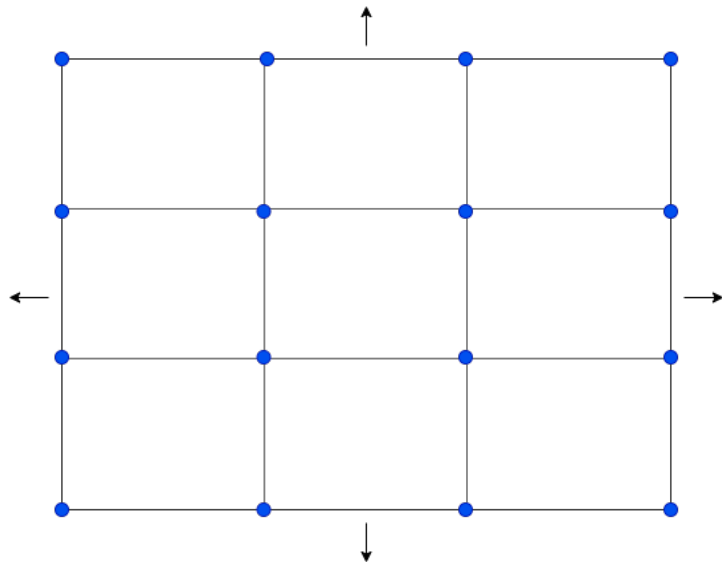


TODOs

- ▶ Software Architecture, Algorithm development.
- ▶ Full Assembly.
- ▶ Test Cases.

Planaenderungen

-Colors and Navigation



- ▶ PWM !!!
- ▶ Follow a line with 2 IR Sensors

bliography



Thomas Braunl

Embedded Robotics.

Springer-Verlag 2006.

Thanks