

# Introduction to Robotics

## Lecture 7: Calibrating the Line Sensor

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ParaDiSe

# Where Should We Be At The End

You should be able to:

- control the motors
- control the servo
- read values from the distance sensor
- be able to read values from line sensor

## Confusion about Slave Select Pin

There is a slave select pin (10) on the Arduino

- SS pin is used only during the SPI slave mode
- we need SS pin for the sensor → use any available pin
- the Adafruit library supports it – the constructor has a CS parameter with a default value 10

# Checkpoints

- can you control the motors?
- can you control the servo?
- can you read the distance sensor?
- can you read values from the line sensor? (and display them on computer)?

Advanced:

- calibrate the line sensor (equalize the values)
- try to program a line follower which stops at the crossroad