

Report for full system test - 26.05.2025

During today's lab session, the codes for the following components were tested:

Color sensor - The initial code did not work correctly since we found out that the *color sensor* is more biased towards the red color, even if a different color was placed in front of the sensor. So the code was updated in order to take in account this issue.

IR sensor - The initial code had a small issue with the logic, but after testing it in the lab, we found the error and fixed it quickly.

Ultrasonic sensor - The initial code for this sensor was mostly correct. After doing some testing, we changed the motor rotation speed (from *100ms* to *50ms*) and added an interrupt like behavior when it detects an object, so the car can stop faster.

Servo motor - The initial code was correct, and the motor worked as intended.

The tests for the components were done as a unit, so each unit was tested *separately*. Due to lack of time, we were not able to do a full system test.