

Elegoo Smart Car Kit 3.0 v

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1 Introduction

This hw, we controlled a robotics car using an arduino and motor controller

2 Materials and Methods

The tutorial for making these examples are in http://www.yilelectronics.com/Tutorials/Arduino_Basics/Tutorial_7_robotCar/robotCar.html

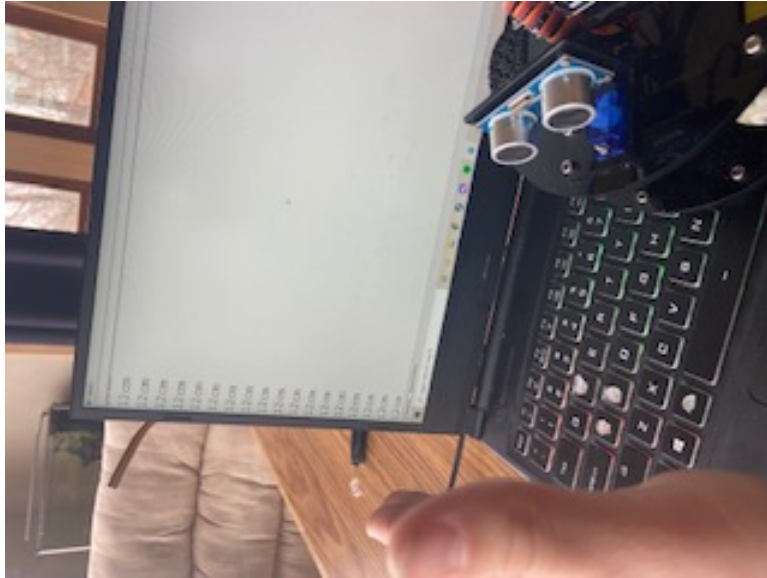
3 Results

3.1 Task 1

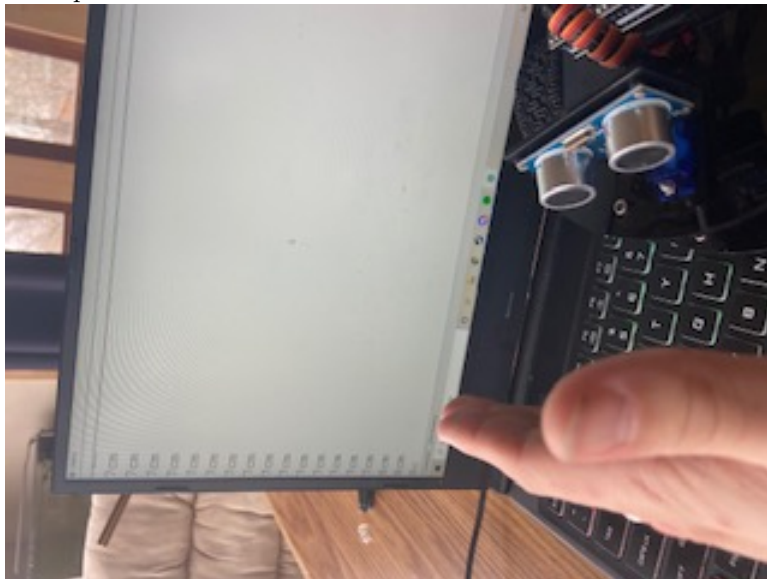
The car came pre-assembled

3.2 Task 2: Ultrasonic Sensor

Example 1



Example 2



3.3 Task 3: Servo Swerve

<https://youtu.be/ZS75pdyHVZ8>

3.4 Task 4: Motor Spin

<https://youtu.be/4FIoIYUUPk8>

3.5 Task 5: IR Sensor Test

https://youtu.be/_VPv4-RQbv8

3.6 Task 6: Line Follow

<https://youtu.be/s9ELwhxB0n4>

3.7 Task 7: Line Follow

<https://youtu.be/cskDtrKve04>

3.8 Task 8: Object Avoidance

<https://youtu.be/PhnExcDQJJ8>

4 Discussion

All of this was fairly simple just to follow your tutorial. I had no trouble figuring out the problems. The line tracker had a little difficulty following the line on that floor, but had a much more difficult time following the line on the white mat, so I chose the floor example.