<https://github.com/camiloAF/SelfDrivingCar>

Resources

2 x DC Motor 12V 6000RPM Mini Magnetic Motor

2x (3,57 € + EUR 4,85) Versandkosten

<https://www.amazon.de/Aexit-6000RPM-Drehmoment-Magnetische-Mini-Elektro/dp/B07KTRY4XZ/ref=sr_1_35?__mk_de_DE=%C3%85M%C3%85%C5%BD%C3%95%C3%91&keywords=dc+motor+12v+6000rpm&qid=1576224319&sr=8-35>

Specifications:

Steuerpflichtige Spannung DC 12V

Nenndrehzahl 10000 RPM

Stiel-Größe 13 x 2.3mm/0.51" x 0.09" (L\*D)

Motor Körperlänge 38mm/1.49"

Motor-Körper-Durchmesser 27.5mm/1.08"

Material Metall, elektronische Teile

Gewicht 64g

Lieferumfang 1 X Motor

Beschreibung: Wellendurchmesser 2,3 mm, 2-polig Anschluss, zylindrischen, magnetischer Motor. Großer Wiedereinbau für die rostigen oder beschädigte DC-Motor auf dem Computer. Verwendet für elektronische Spielgerät, elektronisches Spielzeug,Spielzeugauto, Roboter, elektronische Geräte, usw..

Artikelgewicht: 9,07 g

Verpackungsabmessungen:13,5 x 9,4 x 2,8 cm

Modellnummer:

Größe:12V

Farbe:6000RPM

Sketch of wiring Camilo

<https://www.tinkercad.com/things/4GetKHoXXrp-panzer/editel>

Resources

[Complete Guide for Ultrasonic Sensor HC-SR04 with Arduino](https://randomnerdtutorials.com/complete-guide-for-ultrasonic-sensor-hc-sr04/)

Motor Voltage regulation:

<https://www.arrow.com/en/research-and-events/articles/6-factors-to-consider-when-choosing-a-voltage-regulator>

[El Toro Grande: Self-Driving Car Using Machine Learning](https://create.arduino.cc/projecthub/dantuluri/el-toro-grande-self-driving-car-using-machine-learning-4cc1f9)

[Get started with machine learning on Arduino](https://blog.arduino.cc/2019/10/15/get-started-with-machine-learning-on-arduino/)

[hamuchiwa/AutoRCCar: OpenCV Python Neural Network Autonomous RC Car](https://github.com/hamuchiwa/AutoRCCar)

[Self Driving RC Car](https://zhengludwig.wordpress.com/projects/self-driving-rc-car/)

[Autonomous Self-Learning Robot (Q-Learning)](https://www.youtube.com/watch?v=WtEYMELvRHI)

Reinforcement Learning: Example and Tutorial

[**Intro - Training a neural network to play a game with TensorFlow and Open AI**](https://www.youtube.com/watch?v=3zeg7H6cAJw)

[**Reinforcement Learning: Example and Tutorial**](https://www.youtube.com/watch?v=f2nIKFMyfSg)

[**Andrew August's Data Science Notebook**](http://ajaugust.com/rl.html)

[A Beginner's Guide to Deep Reinforcement Learning](https://pathmind.com/wiki/deep-reinforcement-learning)

[makennbot/FIRMWARE at master · IdleHandsProject/makennbot](https://github.com/IdleHandsProject/makennbot/tree/master/FIRMWARE)

<https://wiki.dfrobot.com/DFRduino_Romeo-All_in_one_Controller__SKU_DFR0004_#target_7>

<https://stackoverflow.com/questions/12023640/control-an-arduino-with-java>

[Robot Learning To Walk With Neural Networks](https://www.youtube.com/watch?v=3lrG2oU6yfc)

[Neural Network Robot With Arduino](https://www.youtube.com/watch?v=7FMGXCAwbnc)

[Arduino Neural Network](http://robotics.hobbizine.com/arduinoann.html)

Ultrasonic sensor indoor mapping

[INDOOR MAPPING USING ULTRASONIC SENSOR](http://www.digitalxplore.org/up_proc/pdf/65-140308689152-53.pdf)

Github

<https://github.com/tae-jun/ArduPathFinder/tree/master/arduino>

[Mapping Your Surroundings Using MATLAB and Arduino](https://www.youtube.com/watch?v=iaF81W-l6Xg)

[Autonomous Navigation and 2D Mapping - Arduino Project Hub](https://create.arduino.cc/projecthub/avirup_basu/autonomous-navigation-and-2d-mapping-0f91d3)

[Burning the Bootloader on ATMega328 Using Arduino UNO As ISP](https://www.instructables.com/id/Burning-the-Bootloader-on-ATMega328-using-Arduino-/)

[Arduino Uno R3 Clone CH340 / CH341 USB driver](https://www.srishtirobotics.com/more/blog/154-arduino-uno-r3-clone-ch340-ch341-usb-driver)

<https://www.youtube.com/watch?v=dyjo_ggEtVU&t=1100s>

Pins:

Analog

A0

A1

A2

A3

A4  
A5

DigitalInput:

2: UltraSoundSensorRightEcho

PWM:

3: UltraSoundSensorRightTrigger

4: UltraSoundSensorLeftEcho

5: UltraSoundSensorMiddleTrigger

6: mRigthEnable

7: mRightInput1

8: mRightInput2

9: UltraSoundSensorLeftEcho

10: UltraSoundSensorLeftTrigger

11: mLeftEnable

12: mLeftInput1

13: mLeftInput2

LED

13