## **Object recognition**

* <http://maker.robotistan.com/raspberry-pi-ile-nesne-tanimlamarecogpi/>
* Raspberry Pi Camera module: <https://www.robotistan.com/raspberry-pi-kamera>
* Camera Cable 20 cm: <https://www.robotistan.com/raspberry-pi-kamera-ekran-esnek-kablosu-200mm>

## **Obstacle Avoidance**

<http://maker.robotistan.com/raspberry-pi-dersleri-9-hc-sr04-ultrasonik-mesafe-sensoru/?gclid=Cj0KCQiAp8fSBRCUARIsABPL6JZTjiLh8DyJKlEAFeBTV_dRhSpqRBEaoOC7fhrfTerpEpaSR1qCJxgaAskXEALw_wcB>

* IR sensor: HC-SR04: <https://www.robotistan.com/hc-sr04-ultrasonik-mesafe-sensoru> 5.3 tl
* 3 x 10kΩ:

## **Movement**

* Geared DC Motor with wheels x 2: <https://www.direnc.net/6v-250-rpm-motor-ve-tekerlek-seti?lang=tr&h=cc6b1986&gclid=Cj0KCQiAp8fSBRCUARIsABPL6Ja0UZyylqpW9ys7fYt7GAWYJVS5DNMIKOlf_-wFuvurejHqix2UMNAaAqdEEALw_wcB>
* Adafruit TB6612 1.2A DC/Stepper Motor Driver  ??? (FOR 1 MOTOR, need a different one)
* Ryantech MCB (FOR 2 MOTORS – Seller?)
* !!!!!! <https://www.robotistan.com/raspberry-pi-motor-surucu-shieldi> Price: 150.54
* <https://www.robotistan.com/arduino-motor-surucu-shield-arduino-motor-driver-shield>
* *Tutorial 1:* <https://business.tutsplus.com/tutorials/controlling-dc-motors-using-python-with-a-raspberry-pi--cms-20051>
* *Tutorial 2:*<https://learn.adafruit.com/adafruit-raspberry-pi-lesson-9-controlling-a-dc-motor/overview>
* *Tutorial 3:* <http://www.instructables.com/id/Raspberry-PI-L298N-Dual-H-Bridge-DC-Motor/>
* *Tutorial 4:* <https://howchoo.com/g/mjg5ytzmnjh/controlling-dc-motors-using-your-raspberry-pi>
* *Tutorial 5:* \*\*\*\* <https://www.youtube.com/watch?v=JJXzlCK4vnY> \*\*\*\*
* *Tutorial 6:* <http://www.piddlerintheroot.com/l298n-dual-h-bridge/>
* *Breadboard:* https://www.robotistan.com/breadboard-2  Price: 7.08 TL
* *Castor wheels or wheels?*
* *L298N:* [*https://www.robotistan.com/l298n-voltaj-regulatorlu-cift-motor-surucu-karti*](https://www.robotistan.com/l298n-voltaj-regulatorlu-cift-motor-surucu-karti)

## **Chassis**

* Design or buy?

## **Power Supply**

* Need more research