Power circuit and parts

It consist of:

1x fischer technik car maker kit

3x cell

1x Raspberry pi 4b 2gb

2x hcsr04p ultrasonic distance sensor

1x l298n motor controller

1x tcs 3200 color sensor

1x fischer technik servo (Nr. 132292)

1x fischer technik encoder motor (Nr. 153422)

2x buck converter

1x 3d printed sheet

4x 3d printed spacer

2x 3 slot wago

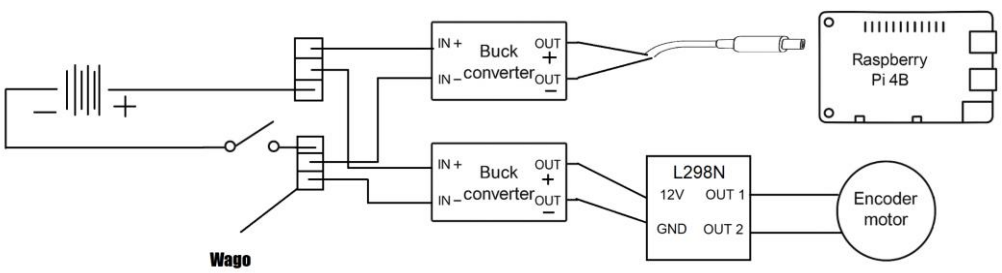
2x switch

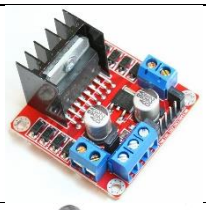
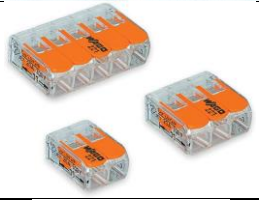
The cells takes space between the normal foundation and the sheet to save space. From there it goes to a switch which power the whole system.

From the cells (across the switch) it goes to the 2 wago.

From there it goes to the 2 buck converter.

1 buck give's 5v tot he raspberry. The other one goes to the motor controller which then goes to the encoder motor.



Name	Task	Photo	Buy it online
fischer technik car maker kit	This is the body of the robot also comes with this set the motor and the servo		Official Fischer technik website
Raspberry pi 4b	Controls the robot and the sensors		Official pi website
hc sr04p	Distance sensor		Amazon link
l298n motor controller	Controls the motor		Amazon link
tcs 3200 color sensor	Color sensor		Amazon link
buck converter	Convert current to the necessary voltage		Amazon link
Wago	Connect the cables		Amazon link
switch	Turn on the pi and the script		Amazon link