

Materials Needed for Project

Component	Quantity	Manufacturer	Datasheet
Arduino Uno Clone	1	HK Shang Hai Group Limited	https://www.fecegypt.com/uploads/dataSheet/1522237550_arduino%20uno%20r3.pdf
Ultrasonic ranging Module HC-SR04	1	Shenzhen Zhinengpai Technology, Ltd	https://drive.google.com/drive/u/0/folders/1ubCFtI7ZSkGtuIWP8GgJRbIIXPaALyPR
Dot matrix Liquid Crystal Display Controller/Driver	1	Hitachi	https://www.sparkfun.com/datasheets/LCD/HD44780.pdf
I2c backpack	1	Mantech Electronics	https://cdn-learn.adafruit.com/downloads/pdf/i2c-spi-lcd-backpack.pdf
TCRT5000 IR Sensor Module	1	Vishay	https://drive.google.com/drive/u/0/folders/1ubCFtI7ZSkGtuIWP8GgJRbIIXPaALyPR
Caster Wheel	1	Adafruit	https://www.adafruit.com/product/2942#technical-details
L298 Motor Driver	1	STmicroelectronics	https://www.sparkfun.com/datasheets/Robotics/L298_H_Bridge.pdf
Rubber Wheel	2	DFRobot	https://www.dfrobot.com/product-352.html?gclid=Cj0KCQjw-_j1BRDkARIsAJcfmTEqivwhCDxFEUiDT6uHD-_IV9okfm94Rw8atIR4Su-Yd2aEu1f3DmcaAriYEALw_wcB
12 Volt DC motor	2	OSEPP	http://osepp.com/downloads/pdf/LS-00085_970rpmDCmetalmotor.pdf
AA Battery	4	Energizer	https://data.energizer.com/pdfs/e91.pdf
Battery Holder	1	OSEPP	https://www.alliedelec.com/m/d/a4b4345a64431fbaa9e520d1fd91cb33.pdf
9 Volt Battery	1	Duracell	http://www.farnell.com/datasheets/1842389.pdf

Enclosure (Outside Casing)	1	3D Printed	https://www.materialise.com/system/files/resources/materialise_datasheets_def_file_PA-AF.PDF
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