**Controllers:**

* 1 x Arduino Uno Board (or similar) ([DigiKey](http://www.digikey.com/product-detail/en/arduino/A000066/1050-1024-ND/2784006))
* 1 x IRF520 MOS FET Driver Module ([Aliexpress](https://es.aliexpress.com/store/product/0-24VTop-Mosfet-Button-IRF520-MOS-Driver-Module-For-Arduino-MCU-ARM-Raspberry-pie/1185416_32275524365.html?spm=2114.04010208.3.19.g1nCuK&ws_ab_test=searchweb0_0,searchweb201602_3_10000560_10000073_10000561_10000074_10000175_10000507_10000401_10000505_10000068_10000063_10099_10000156_10096_10000569_10000097_10000094_10000090_10000091_10000147_10000144_10084_10000150_10083_10080_10000153_10082_10081_10110_10111_10112_10113_10000535_10114_10000534_10000089_10000086_10000083_10000135_10000080_10078_10079_10073_10000140_10070_10122_10123_10126_10124_10000546_10065_10068_10501_10000132_10000033_10503_10000030_10000126_10000026_10000129_10000023_10000123_432_10060_10062_10056_10055_10054_302_10059_10000120_10000020_10000117_10000013_10103_10102_10000016_10000114_10000111_10052_10053_10050_10107_10051_10106_10000621_10000384_10000101_10000100_10000579_10000104_10000045_10000578_10000108_10000612_10000613_10000390_10000042_10000592_10000039_10000587_10000036_10000389_10000187-10503_10501,searchweb201603_2,afswitch_1,ppcSwitch_4,single_sort_1_default&btsid=23d4dbb7-b390-4b6d-8de8-456e740343d8&algo_expid=c1fe14ed-efb6-4d8b-8aa1-2ef2a833c598-5&algo_pvid=c1fe14ed-efb6-4d8b-8aa1-2ef2a833c598)) ₹129 @ sparkpcb
* 1 x H-bridge L298 Dual Motor Driver ([Aliexpress](https://es.aliexpress.com/store/product/Dual-H-Bridge-DC-Stepper-Motor-Drive-Controller-Board-Module-L298N/712084_32273246252.html?spm=2114.04010208.3.10.hlghTt&ws_ab_test=searchweb0_0,searchweb201602_3_10000560_10000073_10000561_10000074_10000175_10000507_10000401_10000505_10000068_10000063_10099_10000156_10096_10000569_10000097_10000094_10000090_10000091_10000147_10000144_10084_10000150_10083_10080_10000153_10082_10081_10110_10111_10112_10113_10000535_10114_10000534_10000089_10000086_10000083_10000135_10000080_10078_10079_10073_10000140_10070_10122_10123_10126_10124_10000546_10065_10068_10501_10000132_10000033_10503_10000030_10000126_10000026_10000129_10000023_10000123_432_10060_10062_10056_10055_10054_302_10059_10000120_10000020_10000117_10000013_10103_10102_10000016_10000114_10000111_10052_10053_10050_10107_10051_10106_10000621_10000384_10000101_10000100_10000579_10000104_10000045_10000578_10000108_10000612_10000613_10000390_10000042_10000592_10000039_10000587_10000036_10000389_10000187-10503_10501,searchweb201603_2,afswitch_1,ppcSwitch_4,single_sort_1_default&btsid=41cc97c3-c03d-4f3a-9b5a-d7c7f16f9c39&algo_expid=c5bd03f1-c8e0-4179-81da-6a2f469cb3b0-4&algo_pvid=c5bd03f1-c8e0-4179-81da-6a2f469cb3b0))

**Actuators:**

* 2 x Micro Metal Gearmotor HP 6V 298:1 ([DigiKey](http://www.digikey.com/product-detail/en/sparkfun-electronics/ROB-12285/1568-1161-ND/5673747)) ₹349 @ robu.in
* 1 x Micro Metal Gearmotor Bracket Pair ([Pololu](https://www.pololu.com/product/1086))
* 1 x Wheel 42×19mm Pair ([DigiKey](http://www.digikey.com/product-detail/en/sparkfun-electronics/ROB-08899/ROB-08899-ND/5814304))
* 1 x Fan Blower AVC BA10033B12G 12V or similar (BCB1012UH Neato's motor) ([Ebay](http://www.ebay.com/itm/1pc-AVC-BA10033B12G-fan-9733-12V-4-5A-4pin-M3529-QL-/182281112508?_trksid=p2349526.m2548.l4275), [NeatoOption](http://www.ebay.com/itm/Neato-Vacuum-Fan-and-motor-Impeller-xv-Series-xv-11-xv-14-xv-15-xv-12-xv-21-/201157367856?hash=item2ed5e9d830:g:VHwAAOSw-jhT~I0i)) ₹290

**Sensors:**

* 2 x Sharp Distance Sensor GP2Y0A41SK0F (4 - 30cm) ([DigiKey](http://www.digikey.com/product-detail/en/sharp-microelectronics/GP2Y0A41SK0F/425-2819-ND/3884447))

**Power:**

* 1 x ZIPPY Compact 1300mAh 3S 25C Lipo Pack ([HobbyKing](https://hobbyking.com/en_us/zippy-compact-1300mah-3s-25c-lipo-pack.html)) ₹1,199 robu.in
* 1 x LiPo Battery Charger 3s ([Amazon-Charger](https://www.amazon.com/Turnigy-Compact-Lipo-Charger-100-240v/dp/B00XU4ZR06/ref=sr_1_1?s=toys-and-games&ie=UTF8&qid=1488313025&sr=1-1&keywords=turnigy+lipo+charger+3s+2s)) ₹522
* 1 x 1k Ohm resistor
* 1 x 2k Ohm small potentiometer

**3d Printing:**

* 3D printer with a minimum printing size of 21 L x 21 W cm .
* PLA Fillament or similar.
* If you don't have, you can print your file on [3DHubs](https://www.3dhubs.com/3dprint).

**Other materials:**

* 20 x M3 bolts with (3mm diameter) ₹149
* 20 x M3 nuts
* 2 x #8-32 x 2 IN bolts with nuts and washer.
* 1 x Vaccum bag filter (cloth type)
* 1 x Ball Caster with 3/4″ Plastic or Metal Ball ([Pololu](https://www.pololu.com/product/955))
* 2 pushbuttons ([Aliexpress](https://es.aliexpress.com/store/product/THGS-25pcs-Round-Pushbutton-4-Pins-SMD-SMT-Momentary-Tactile-Switch/2342330_32721411394.html?spm=a219c.search0104.3.169.21ca9f8dzLSSgC&ws_ab_test=searchweb0_0,searchweb201602_3_10152_10151_10065_10344_10068_5722815_10342_10343_10340_5722915_10341_5722615_10696_10084_10083_10618_10307_5722715_5711215_10059_308_100031_10103_10624_10623_10622_5711315_5722515_10621_10620_10814_10815,searchweb201603_36,ppcSwitch_4&algo_expid=90403f6b-23f8-4930-be91-b7a99c1cf8ed-23&algo_pvid=90403f6b-23f8-4930-be91-b7a99c1cf8ed&priceBeautifyAB=0))
* 1 x On/Off Switch

**Tools:**

* Screw driver
  + Soldering Iron
* Pliers
* Scissors
* Cable (3m)