**GrabCAD** [**https://grabcad.com/**](https://grabcad.com/)

**12V Rechargeable Battery Pack (glued) [CHECKED]**

[**https://www.robotshop.com/ca/en/12v-1600mah-rechargeable-nimh-battery.html**](https://www.robotshop.com/ca/en/12v-1600mah-rechargeable-nimh-battery.html)

**Model:** [**https://cad.onshape.com/documents/e1b143251de61302e5424581/w/50af924202db16f54df312ae/e/50e5f12855ba05e5ea85b85b**](https://cad.onshape.com/documents/e1b143251de61302e5424581/w/50af924202db16f54df312ae/e/50e5f12855ba05e5ea85b85b)

**Battery Connector and Switch (glued) (Missing) [CHECKED]**

[**https://www.robotshop.com/ca/en/gog-wh-01-wiring-harness-battery-connector.html?gclid=EAIaIQobChMIgcj9ipG93QIVAR6GCh3faQ7JEAQYAiABEgJ20\_D\_BwE**](https://www.robotshop.com/ca/en/gog-wh-01-wiring-harness-battery-connector.html?gclid=EAIaIQobChMIgcj9ipG93QIVAR6GCh3faQ7JEAQYAiABEgJ20_D_BwE)

**3 X 6V DC motor with encoder (support with motor support) [CHECKED]**

[**https://www.aliexpress.com/item/1-set-2-set-Motor-Encoder-DC-6V-210RPM-4mm-Shaft-Mayitr-Powerful-High-torque-Gear/32820086505.html**](https://www.aliexpress.com/item/1-set-2-set-Motor-Encoder-DC-6V-210RPM-4mm-Shaft-Mayitr-Powerful-High-torque-Gear/32820086505.html)

**Model:**

**2 X L 298P motor controller Shield (support with standoffs) [CHECKED]**

[**https://www.aliexpress.com/item/Replace-L298P-For-Arduino-UNO-R3-MEGA2560-Dual-Channel-DC-Motor-Driver-Shield-Expansion-Board-L298NH/32801279582.html**](https://www.aliexpress.com/item/Replace-L298P-For-Arduino-UNO-R3-MEGA2560-Dual-Channel-DC-Motor-Driver-Shield-Expansion-Board-L298NH/32801279582.html)

**Model:** [**https://grabcad.com/library/arduino-motor-shield-1**](https://grabcad.com/library/arduino-motor-shield-1)

**Standoffs [CHECKED] how many??**

**Model:** [**https://grabcad.com/library/m3-standoff-1**](https://grabcad.com/library/m3-standoff-1)

**3 X Omni Wheels [CHECKED] (1 New Wheel, 2 New D-Shaft) [CHECKED]**

<https://www.robotshop.com/ca/en/58mm-plastic-omni-wheel-compatible-servos-lego-mindstorms-nxt.html>

**Model:**

<https://grabcad.com/library/omni-wheel-58mm-1>

**Arduino MEGA 2560 [CHECKED]**

<https://www.aliexpress.com/item/Free-shiping-Mega-2560-R3-Mega2560-REV3-ATmega2560-16AU-Board-USB-Cable-compatible-for-arduino/32696844899.html>

**Model:**

[**https://grabcad.com/library/arduino-mega-2560-1**](https://grabcad.com/library/arduino-mega-2560-1)

**USB Cable [CHECKED]**

[https://www.aliexpress.com/store/product/6FT-USB-2-0-A-B-Male-Printer-Cable-1-8m-for-Arduino-uno-R3/1738188\_32473271460.html?ws\_ab\_test=searchweb0\_0,searchweb201602\_3\_10065\_5017220\_10068\_10130\_5017320\_10547\_10059\_10548\_10696\_100031\_10084\_5017518\_10083\_10103\_451\_10618\_452\_5017418\_10139\_10307,searchweb201603\_1,ppcSwitch\_5\_ppcCh**annel&algo\_expid=aeba050e-2790-4597-ac3e-31e8ac07af64-8&algo\_pvid=aeba050e-2790-4597-ac3e-31e8ac07af64&transAbTest=ae803\_2&priceBeautifyAB=0**](https://www.aliexpress.com/store/product/6FT-USB-2-0-A-B-Male-Printer-Cable-1-8m-for-Arduino-uno-R3/1738188_32473271460.html?ws_ab_test=searchweb0_0,searchweb201602_3_10065_5017220_10068_10130_5017320_10547_10059_10548_10696_100031_10084_5017518_10083_10103_451_10618_452_5017418_10139_10307,searchweb201603_1,ppcSwitch_5_ppcChannel&algo_expid=aeba050e-2790-4597-ac3e-31e8ac07af64-8&algo_pvid=aeba050e-2790-4597-ac3e-31e8ac07af64&transAbTest=ae803_2&priceBeautifyAB=0)

**5 X Ultrasonic Sensor (glued )[CHECKED]**

[**https://www.aliexpress.com/item/5pcs-lot-HC-SR04-ultrasonic-ranging-module-smart-car-ultrasonic-sensor-module/32531458441.html**](https://www.aliexpress.com/item/5pcs-lot-HC-SR04-ultrasonic-ranging-module-smart-car-ultrasonic-sensor-module/32531458441.html)

**Model:**

[**https://grabcad.com/library/hc-sr04-utrasonic-sensor-1**](https://grabcad.com/library/hc-sr04-utrasonic-sensor-1)

**1 X Digital Compass (HMC 5883L) (glued) [CHECKED]**

[**https://www.aliexpress.com/item/GY-521-MPU-6050-MPU6050-Module-3-Axis-analog-gyro-sensors-3-Axis-Accelerometer-Module/32340949017.html?ws\_ab\_test=searchweb0\_0,searchweb201602\_1\_5017311\_10065\_10068\_10130\_10547\_10059\_10548\_10696\_100031\_10084\_10083\_10103\_451\_10618\_452\_10139\_10307\_5017211\_5017411\_5017511,searchweb201603\_54,ppcSwitch\_4&algo\_expid=89bc1e42-890e-4007-b8de-e14e18079934-0&algo\_pvid=89bc1e42-890e-4007-b8de-e14e18079934&priceBeautifyAB=0**](https://www.aliexpress.com/item/GY-521-MPU-6050-MPU6050-Module-3-Axis-analog-gyro-sensors-3-Axis-Accelerometer-Module/32340949017.html?ws_ab_test=searchweb0_0,searchweb201602_1_5017311_10065_10068_10130_10547_10059_10548_10696_100031_10084_10083_10103_451_10618_452_10139_10307_5017211_5017411_5017511,searchweb201603_54,ppcSwitch_4&algo_expid=89bc1e42-890e-4007-b8de-e14e18079934-0&algo_pvid=89bc1e42-890e-4007-b8de-e14e18079934&priceBeautifyAB=0)

**Model:**

**(backup)** [**https://grabcad.com/library/mpu-92-65-1**](https://grabcad.com/library/mpu-92-65-1)

**Bluetooth HC-05/6 (glued) [CHECKED]**

[**https://www.aliexpress.com/item/Wireless-Serial-6-Pin-Bluetooth-RF-Transceiver-Module-HC-05-RS232-Master-Slave/2038549888.html**](https://www.aliexpress.com/item/Wireless-Serial-6-Pin-Bluetooth-RF-Transceiver-Module-HC-05-RS232-Master-Slave/2038549888.html)

**Model:**

[**https://grabcad.com/library/hc-05-4**](https://grabcad.com/library/hc-05-4)

**Breadboard\*2 (Missing)[CHECKED]**

<https://www.aliexpress.com/item/1pcs-Quality-mini-bread-board-breadboard-8-5CM-x-5-5CM-400-holes/32803112223.html>

**Model:**

[**https://grabcad.com/library/minibreadboard-1**](https://grabcad.com/library/minibreadboard-1)

**Servo motor or stepper motor \* 2 [CHECKED]**

| <https://www.aliexpress.com/item/Free-shipping-1pcs-lot-MG995-55g-servos-Digital-Metal-Gear-rc-car-robot-Servo/32355876998.html> |
| --- |

Model: <https://grabcad.com/library/mg995-mg996r-servo-1>

**Rotary Encoder [CHECKED]**

[**https://www.sparkfun.com/products/9117**](https://www.sparkfun.com/products/9117)

**Model:**

[**https://grabcad.com/library/pec11r-4215k-1**](https://grabcad.com/library/pec11r-4215k-1)

|  |
| --- |

(DC-DC converter \* 1)

<https://www.aliexpress.com/item/32715399306.html?s=p&ws_ab_test=searchweb0_0,searchweb201602_3_10065_5017220_10068_10130_5017320_10547_10059_10548_10696_100031_10084_5017518_10083_10103_451_10618_452_5017418_10139_10307,searchweb201603_1,ppcSwitch_5_ppcChannel&transAbTest=ae803_2&priceBeautifyAB=0>

Model: <https://grabcad.com/library/lm2596-1>

**Acrylic Sheets \*1 (Missing) [CHECKED]**

(IR Line Follower\*2)

(IR Distance sensor\*2)

**LEDs \* 3** **(Missing) [CHECKED]**

**Fasteners** **[CHECKED] HOW MANY??**

**Dupont Connectors**

**Heat Shrink**

**Turnigy Battery Charger**

**2-4 Pin Connectors [CHECKED] HOW MANY??**

**Jumper Wires**

* **StrategyLocalization Object Detection Delivery**