

**Detailed Bill of Materials**

Component	Quantity	Price	Link
Mechanical Components			
3D printed pieces	12 pieces	\$60	<i>Privately Sourced</i>
Acrylic Pieces	3 pieces	\$8.35	Art Friends
3mm Flywheel Mounting Hub	1	\$9.20	<a href="#">Robot R Us</a>
M3 Nuts	30	\$4.20	<a href="#">Lazada</a>
M2.5 Nuts	2		
M2 Nuts	28		
M3x30	2		
M3x20	4		
M3x15	24		
M3x10	6		
M2.5x15	2		
M2x15	8		
M2x10	18		
M2x5	2		
M2 Washers	12		
M3 Washers	6		
M3x10 F to F Standoffs	2	\$1.50	<a href="#">DigiKey Electronics</a>
Anti-Slip Mat	200mm x 200mm	\$9.00	<a href="#">Monotaro</a>
<b>Total</b>	163	\$92.25	-
Electrical Components			
AMG8833	1	\$29.69	<a href="#">Aliexpress</a>
PN532 Breakout Board	1	\$54.57	<a href="#">Adafruit</a>
Geared DC Motor	1	\$10.44	<a href="#">SG-RS</a>

DC Motor Driver	1	\$11	<a href="#">Cytron Marketplace</a>
Stepper Motor and Driver	1	\$6.99	<a href="#">Shopee</a>
Protoboard	1	\$4.00	Sim Lim Square
100 Ohm Resistor	1	\$0.15	<a href="#">DigiKey Electronics</a>
1 MicroFarad Capacitor	1	\$0.50	<a href="#">Element 14</a>
LDR	1	\$3.00	<a href="#">Element 14</a>
<b>Total</b>	9	\$120.34	-
TurtleBot Set			
Raspberry Pi	2	\$804.49	<a href="#">Robotis Shop</a>
Open Cr	1		
Lidar	1		
Dynamixel Motor	2		
Battery and Charger	2		
Other Mechanical Components, Cables and Wires (Waffle plates, Wheels, screws, spacers, etc)	204		
<b>Total</b>	212		-

Total	Number of Parts	Price
	384	\$1017.08