

Part Name	Part / Identification Number	Quantity
Digikey		
Micro USB 2.0 Connector	609-4613-1-ND	1
Connector Receptacle	WM3917CT-ND	1
Resistor 390 Ohm	311-390CRCT-ND	1
Toggle Switch	CKN1783CT-ND	1
Arduino Nano 3.x	1050-1001-ND	1
Mini USB 2.0 Connector	UE25BE5510H-ND	1
Right Angle Connector	WM1743-ND	1
Resistor 100k Ohm 0805	311-100KCRCT-ND	6
Hall Effect Sensor	AS5600-ASOMCT-ND	1
Capacitor 1 μ F 0805	1276-1066-1-ND	1
Capacitor 10 μ F 0805	445-7644-1-ND	1
Connector Receptacle	WM4783CT-ND	1
Resistor 10k Ohm 0805	RMCF0805FT10K0CT-ND	2
Motor Driver 20-QFN (3x3)	175-TMC6300-LA-TCT-ND	1
Resistor 120 mOhms 0805	RL12S.12FCT-ND	1
Capacitor 0.1 μ F 0805	478-KGM21NR71H104KTCT-ND	3
Brushless DC Motor	1568-ROB-20441-ND	1
Mouser		
Red LED	ID: 696-SMLFT0805SRCTR	1
Adafruit		
M3 x 4mm threaded insert	4255	1 (Pack of 50)
McMaster-Carr		
M2 x 4mm threaded insert	94180A312	1 (Pack of 100)
Ball Bearing 6 mm shaft	4668K122	1

M3-0.5 x 6mm screw	91290A111	1
M3-0.5 x 10mm screw	91290A115	1
M2-0.4 x 8mm screw	91290A015	1
Taidacent		
Rotary Electrical Slip Ring (M2 x 10mm screws included)	734831002031	1
K&J Magnetics, Inc		
Magnet (5 mm x 1mm)	D301	1
Maxx Model		
M1.6 x 4mm screw	M1640HCS	1
Custom Parts		
Top Case	3-D Printing	1
PCB attachment	3-D Printing	1
Static PCB	PCB Manufacturing (JLC PCB)	1
Dynamic PCB	PCB Manufacturing (JLC PCB)	1
Small Gear	3-D Printing	1
Shield	3-D Printing	1
Cable Holder	3-D Printing (Craftcloud3d)	1
Outer Gear	3-D Printing (Craftcloud3d)	1