QuickBot MOOV v2 Parts List

Part	Name C	uantit		rice r Unit	Discoun	t Disco Price	ounted Per Unit	Total Part Cost	Vender Link	Octopart Link
mper Wires M/M	Breadboard jumper wire 75pcs pack Compact USB Wi-Fi Adapter with 4" Antenna	1	\$	5.29 12.95	0% 0%	\$	5.29 \$ 12.95 \$	5.29 12.95	Amazon Logic Supply	
esistor 20K	Resistors - Through hole 1/4W 20k ohm	7	\$	0.06	0%	\$	0.06 \$	0.42	Mouser Electronics	http://octopart.com/mf1%2F4dct52r2002f-koa+speer-10683051
sistor 10K	Resistors - Through hole 1/4W 10k ohm	7	\$	0.06	0%	\$	0.06 \$	0.42	Mouser Electronics	http://octopart.com/mf1%2F4dct52a1002f-koa+speer-19664001
icoprocessor	BeagleBone Black	1	\$	44.95	10%	\$	40.46 \$	40.46	SparkFun	http://octopart.com/bb-bblk-000-circuitco+electronics-26478322
wer Jack	DC Barrel Jack Adapter - Female	2	\$	3.00	10%	\$	2.70 \$	5.40	SparkFun	http://octopart.com/ls-00015-osepp-30569370
ttery Holder	Battery Holder - 4xAA Square	1	\$	2.50	10%	\$	2.25 \$	2.25	SparkFun	
assis Kit coder	Magician Chassis RedBot Wheel Encoder	1	\$ \$	14.95 10.00	10% 10%	\$	13.46 \$ 9.00 \$	13.46 9.00	<u>SparkFun</u> SparkFun	http://octopart.com/gre1113gr-fairchild+semiconductor-13127886
ini Breadboard	Breadboard - Mini Modular (White)	1	\$	3.95	10%	Ś	3.56 \$	3.56	SparkFun	http://octopart.com/prt brd white j1-mcm+electronics-29384911
edium Breadboard	Breadboard - Self-Adhesive (White)	1	\$	4.95	10%	\$	4.46 \$	4.46	SparkFun	
mper Wires M/F	Jumper Wires Premium 6" M/F Pack of 10	1	\$	3.95	10%	\$	3.56 \$	3.56	SparkFun	
ounting Screws (long)	Screw - Phillips Head (1/2", 4-40, 10 pack)	2	\$	1.50	10%	\$	1.35 \$	2.70	SparkFun	
ounting Screws (short)	Screw - Phillips Head (1/4", 4-40, 10 pack)	2	\$	1.50	10%	\$	1.35 \$	2.70	SparkFun	
ounting Nuts otor Controller	Nut - Metal (4-40, 10 pack) H-Bridge Motor Driver 1A	1	\$ \$	1.50 2.35	10%	\$	1.35 \$ 2.12 \$	2.70	SparkFun SparkFun	http://octopart.com/sn754410ne-texas+instruments-1320
atsink	Heatsink TO-220	1	\$	0.90	10%	\$	0.81 \$	0.81	SparkFun	http://octopart.com/577102b00000g-aavid+thermalloy-120590
itch	Rocker Switch - SPST (right-angle)	1	\$	0.95	10%	\$	0.86 \$	0.86	SparkFun	
Sensor	Infrared Proximity Sensor Short Range	5	\$	14.00	10%	\$	12.60 \$		SparkFun	http://octopart.com/gp2y0a41sk0f-sharp+microelectronics-806007
Connector	JST Jumper 3 Wire Assembly	5	\$	1.50	10%	\$	1.35 \$	6.75	SparkFun	
Brackets	Angle Bracket - 4-40	10	\$	0.45	10%	\$	0.41 \$	4.05	SparkFun	
uickBot Total (w/	IR Sensors)	20					ş	186.89		
atteries										
charable Batteris	AmazonBasics 8 Pack AA Ni-MH Rechargeable Batteries	1	Ś	18.17	0%	Ś	18.17 \$	18.17	Amazon	
	er EBL 808A 8 Bay AA AAA Battery Charger for Ni-MH Ni-Cd	1	\$	9.99	0%	\$	9.99 \$	9.99	Amazon	
tteries Total		2					\$	28.16		
ools										
	Stanlay 94 006 E. Jack Needle Nece Dior	1	\$	4.00	0%	\$	4.00 \$	4.00	Amazon	
edlenose pillars Idering Iron	Stanley 84-096 5-Inch Needle Nose Plier Dr. Meter 60 Watts High-performance Soldering Iron	1	\$	9.00	0%	\$	9.00 \$	9.00	Amazon	
lder	Lead-Free Solder 5' Roll - LF-99	1	\$	4.00	0%	\$	4.00 \$	4.00	Amazon	
ire cutters	Feibao tools Wire Cutter Plier Yellow 4.5 Inch 125 Mm	1	\$	6.50	0%	\$	6.50 \$	6.50	Amazon	
trical tape	Eletrical tape	1	\$	0.95	10%	\$	0.86 \$	0.86	SparkFun	
ools Total		5					Ş	24.36		
isc.										
card	Sandisk 4GB MicroSDHC Memory Card with SD Adapter	1	\$	6.50	0%	\$	6.50 \$	6.50	Amazon	http://octopart.com/102-adafruit+industries-28107416
Power Supply	Wall Adapter Power Supply - 5V DC 1A	1	\$	5.95	10%	\$	5.36 \$	5.36	SparkFun	http://octopart.com/276-adafruit+industries-29094024
cro-HDMI Cable	Micro-HDMI to HDMI Socket Adapter Cable	1	\$	6.95	0%	\$	6.95 \$	6.95	<u>Adafruit</u>	http://octopart.com/1358-adafruit+industries-32978384
ernet Cable	CAT5 3 ft	1	\$	1.55	0%	\$	1.55 \$	1.55	Amazon	
Barrel Jack Plug Wall Power Supply	DC Barrel Jack Plug - Male Wall Adapter Power Supply - 12VDC 1A	1	\$ \$	0.76 1.46	10%	\$ \$	0.68 \$ 1.46 \$	0.68 1.46	SparkFun Amazon	http://octopart.com/1328-adafruit+industries-32978357
ıltimeter	Digital Multimeter	1	\$	11.46	10%	\$	10.31 \$	10.31	SparkFun	
isc Total		7					Ş	32.81		
ıbsitutions										
assis Kit	Magician Chassis	1	\$	14.95	0%	\$	14.95 \$	14.95	Zagros Robotics	
coprocessor	BeagleBone Black	1	\$	45.00	0%	\$	45.00 \$	45.00	<u>Adafruit</u>	http://octopart.com/bb-bblk-000-circuitco+electronics-26478322
Power Supply	5V 2A (2000mA) switching power supply	1	\$	9.95	0%	\$	9.95 \$	9.95	Adafruit	http://octopart.com/276-adafruit+industries-29094024
Barrel Jack eadboard	2.1mm DC Barrel Jack to Alligator Clips	2	\$	1.95 4.00	0% 0%	\$	1.95 \$ 4.00 \$	3.90 8.00	Adafruit Adafruit	http://octopart.com/1328-adafruit+industries-32978357 http://octopart.com/65-adafruit+industries-25729769
nper Wires M/F	Tiny breadboard Phantom YoYo 40P dupont cable 200mm male to female	1	\$ \$	5.69	0%	\$	4.00 \$ 5.69 \$	5.69	Amazon	nttp://octopart.com/ob-adamunt+INGUSTRES-25729709
ode	Diode rectifier 1N4001	1	\$	0.15	10%	\$	0.14 \$	0.14	SparkFun	http://octopart.com/1n4001-tp-micro+commercial-730241
pacitor	Capacitor Ceramic 0.1uF	1	\$	0.25	10%	\$	0.23 \$	0.23	SparkFun	http://octopart.com/c320c104m5u5ta-kemet-97644
pacitor	Capacitor Electrolytic 10uF	1	\$	0.45	10%	\$	0.41 \$	0.41	SparkFun	http://octopart.com/ece-a1eks100-panasonic+-+ecg-210015
pacitor	Capacitor Electrolytic 100uF	1	\$	0.35	10%	\$	0.32 \$	0.32	SparkFun	http://octopart.com/eeu-fc1e101s-panasonic+-+ecg-207794
mper wires M/M	Jumper Wires Premium 6" M/M Pack of 10	2	\$	3.95	10%	\$	3.56 \$	7.11	SparkFun	
nper Wires M/M tteris	Jumper Wires Standard 7" M/M Pack of 30 1500 mAh Alkaline Battery - AA	8	\$	4.95 0.50	10%	\$	4.46 \$ 0.45 \$	4.46 3.60	SparkFun SparkFun	
	Turnigy 1000mAh 3S 25C Lipoly Battery	1	\$	6.16	0%	\$	6.16 \$	6.16	HobbyKing	
o Batterv										
	JST connector	1	\$	0.46	0%	\$	0.46 5	0.46	Amazon	
ttery Connector	JST connector iMAX B4 Compact 35W 4A Auto Balance Charger 2~4S Lip	1	\$	0.46 11.25	0%	\$	0.46 \$ 11.25 \$	0.46 11.25	Amazon HobbyKing	
oo Battery httery Connector oo Charger oo Charger Power Supply o card										http://octopart.com/102-adafruit+industries-28107416