

Robotics 101. Materials Shopping List (version 2)

Qty.	Item	Qty. (50 kits)	Unit Price	Total	Description
1	Arduino	50	26.96	1348	>10
1	Large Solderless Breadboard	50	3.97	198.5	>50 quote
2	DC Metalgear motor	100	18.66	1866	>50 quote
1	motor driver SN754410	50	1.8752	93.76	>25 quote
4	FQP27P06. P-MOSFET	200	0.8494	169.88	>100 quote (for \$16, get 250)
4	BUZ101S. N-MOSFET	200	0.35	70	>100
6	Terminal Block (2 pins)	300	0.38432	115.296	>250
3	Ceramic Capacitors 100nF	150	0.08	12	>100
1	2.1 mm Plug	50	0.9	45	>10
1	Lead-Acid Rechargeable Battery 2.3Ah.	50	13.84	692	>36 quote
8	220K Resistor	400	0.01844	7.376	>250 (for\$0.01, get 500)
2	Medium Perforated Board	100		0	
1	Large Perforated Board	50		0	
1	resettable circuit breaker	50	0.858	42.9	>50 quote
1	current sensor	50		0	
5	QRD1114 Phototransistor	250	0.8539	213.475	>250 quote
5	5.6K Resistor	250	0.01844	4.61	>250
5	220 Resistor	250	0.01844	4.61	>250
1	74HC4051 Mux	50	0.3852	19.26	>25 quote
1	On/Off Rocker Switch 20A	50	0.5	25	>10
	Total		98.55334	4927.667	

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Store
https://www.sparkfun.com/products/11021
http://www.pololu.com/catalog/product/352
http://www.pololu.com/catalog/product/1107
http://www.digikey.com/product-detail/en/SN754410NE/296-9911-5-ND/380180
http://www.digikey.com/product-detail/en/FQP27P06/FQP27P06-ND/965349
http://www.allelectronics.com/make-a-store/item/BUZ101S/N-CHANNEL-MOSFET-55V-22A-.06OHM/1.html
http://www.digikey.com/product-detail/en/ED500%2F2DS/ED1623-ND/33934
http://www.allelectronics.com/make-a-store/item/104D50/0.1-UF-50-VDC-DISC-CAP/1.html
http://www.allelectronics.com/make-a-store/item/DCSID/2.1MM-0.8-CO-AX-POWER-PLUG/1.html
http://www.digikey.com/product-detail/en/BP2.3-12-T1/522-1008-ND/653329
http://www.digikey.com/product-detail/en/CFR-25JB-52-220K/220KQBK-ND/1294
http://www.digikey.com/product-detail/en/QMB-102-00ENN-3BA/Q518-ND/1963973
http://www.digikey.com/product-search/en?x=-1104&y=-70&lang=en&site=us&Keywords=QRD1114
http://www.digikey.com/product-detail/en/CFR-25JB-52-220R/220QBK-ND/1295
http://www.digikey.com/product-detail/en/CFR-25JB-52-5K6/5.6KQBK-ND/2243
http://www.digikey.com/product-detail/en/74HC4051N,652/568-1455-5-ND/763059
http://www.allelectronics.com/make-a-store/item/RS-147/OFF-ON-ROCKER-SWITCH-20-AMP/1.html