

## Bill of Materials

Part	Qty	URL	Part ID	Total Price
22MΩ Resistors	5	<a href="http://www.digikey.com">www.digikey.com</a>	PPCHJ22MCT-ND	\$2.95
49.9KΩ Resistors	10	<a href="http://www.digikey.com">www.digikey.com</a>	49.9XBK-ND	\$0.98
100KΩ Resistors	5	<a href="http://www.digikey.com">www.digikey.com</a>	100KXBK-ND	\$0.49
10KΩ Resistors	5	<a href="http://www.digikey.com">www.digikey.com</a>	10.0KXBK-ND	\$0.49
33pF Capacitors	5	<a href="http://www.digikey.com">www.digikey.com</a>	1431PH-ND	\$0.95
Operational Amplifiers (OPA2340)	5	<a href="http://www.digikey.com">www.digikey.com</a>	OPA2340PA-ND	\$11.16
Photodiodes	5	<a href="http://www.digikey.com">www.digikey.com</a>	PDB-C134-ND	\$6.47
Red LED	10	<a href="http://www.radioshack.com">www.radioshack.com</a>	276-309	\$14.90
Yellow LED	1	<a href="http://www.radioshack.com">www.radioshack.com</a>	276-021	\$1.49
Mountable LED (RED)	1	<a href="http://www.radioshack.com">www.radioshack.com</a>	276-011	\$2.59
100 ohm Resistors	14	<a href="http://www.digikey.com">www.digikey.com</a>	100XBK-ND	\$0.52
1000μF Capacitor	1	<a href="http://www.digikey.com">www.digikey.com</a>	P5155-ND	\$0.25
5 volt Regulator	1	<a href="http://www.digikey.com">www.digikey.com</a>	LM2940CT-5.0-ND	\$1.82
Solid State Relays	8	<a href="http://www.digikey.com">www.digikey.com</a>	255-1546-5-ND	\$45.12
Sensor Printed Circuit Boards	5	<a href="http://www.4pcb.com">www.4pcb.com</a>	Custom	\$15.00
Main Printed Circuit Board	1	<a href="http://www.4pcb.com">www.4pcb.com</a>	Custom	\$25.00
Parallax Propeller Prop-Stick Education Kit	1	<a href="http://www.parallax.com">www.parallax.com</a>	32306	\$99.99
15 pin D-sub Male Solder Connector	2	<a href="http://www.digikey.com">www.digikey.com</a>	A32503-ND	\$6.12
10 ft. 15 pin D-sub Cable (female-female)	1	<a href="http://www.l-com.com">www.l-com.com</a>	CRMN15FF-2.5	\$18.00
1 ft. mini-B (male) to B (female) USB cable	1	<a href="http://www.usbfiwire.com">www.usbfiwire.com</a>	RR-B2MB-12	\$16.00
Panel Mount Rocker Switch	1	<a href="http://www.digikey.com">www.digikey.com</a>	CK2012-ND	\$7.93
Slide Switch Kit	1	<a href="http://www.radioshack.com">www.radioshack.com</a>	275-327	\$5.99
Hexidecimal Selector Switch	1	<a href="http://www.digikey.com">www.digikey.com</a>	CH240-ND	\$26.84
Hexidecimal Right Panel	1	<a href="http://www.digikey.com">www.digikey.com</a>	CH190-ND	\$0.68
Hexidecimal Left Panel	1	<a href="http://www.digikey.com">www.digikey.com</a>	CH191-ND	\$0.68
Size M Coax DC Jack Panel Mount with Switch	1	<a href="http://www.radioshack.com">www.radioshack.com</a>	274-1582	\$2.99
9volt Battery Holster	1	<a href="http://www.digikey.com">www.digikey.com</a>	BH9V-W-ND	\$0.86
22 AWG solid core wire 75ft	2	<a href="http://www.radioshack.com">www.radioshack.com</a>	278-1224	\$12.98
1/2 Ounce of solder	4	<a href="http://www.radioshack.com">www.radioshack.com</a>	64-026	\$15.96
Heat shrink Tubing (various sizes)	1	<a href="http://www.digikey.com">www.digikey.com</a>	VFP-KIT-ND	\$19.96
12 position Terminal Strip	1	<a href="http://www.radioshack.com">www.radioshack.com</a>	274-680	\$2.59
40 pin DIP Socket	1	<a href="http://www.digikey.com">www.digikey.com</a>	A411-ND	\$1.93
Guitar Hero 3 for PC with controller	1	<a href="http://www.amazon.com">www.amazon.com</a>	Guitar Hero 3	\$59.99
Vector 1U Rack	1	<a href="http://www.digikey.com">www.digikey.com</a>	CCA-10F/90	\$132.00
Vector Snap in Mount Card Guide (Pkg of 12)	1	<a href="http://www.digikey.com">www.digikey.com</a>	CG2-45S	\$16.56
<b>TOTAL</b>				<b>\$578.23</b>