

Bill of Material for Project 2

Sr. No.	Name	Qty	Cost	Link
1	DC Motor (6v, 0.07A, free run RPM 11.5K, 0.8A stall) (operating range is 3 - 12 v)	2	\$3.60	https://www.pololu.com/product/1117
2	PmodHB3	1	\$9.99	http://store.digilentinc.com/pmod-hb3-h-bridge-driver-with-feedback-inputs/
3	Electrolytic Capacitor (25V, 1000uF) (Rubycon)	2	\$2.48	http://www.digikey.com/product-detail/en/rubycon/25JXF1000MEFC10X20/1189-3321-ND/6049852
				http://www.digikey.com/product-detail/en/panasonic-electronic-components/ECA-1EM102B/P10380CT-ND/6579503
4	Hall effect sensor	1	\$2.00	https://www.adafruit.com/product/158
				https://cdn-shop.adafruit.com/datasheets/US5881_rev007.pdf
5	Resistor (10K)	1	\$0.10	http://www.digikey.com/product-detail/en/stackpole-electronics-inc/CF14JT10K0/CF14JT10K0TR-ND/1741265
				http://www.digikey.com/product-detail/en/stackpole-electronics-inc/CF14JT10K0/CF14JT10K0CT-ND/1830374
6	Capacitor (100nF)	1	\$0.18	http://www.digikey.com/product-detail/en/vishay-bc-components/K104Z15Y5VF5TL2/BC1160CT-ND/286782
	Capacitor (47nF)	1	\$0.18	http://www.digikey.com/product-detail/en/vishay-bc-components/K473K10X7RF5UH5/BC2686CT-ND/2356900
7	Toggle Switch	1	\$3.31	http://www.digikey.com/product-detail/en/nkk-switches/M2011SS1W01-UC/360-3289-ND/2105194
8	Magnet (2mm x 1mm)	1	\$2.57	http://www.digikey.com/product-detail/en/honeywell-sensing-and-productivity-solutions/103MG5/480-3621-ND/2505466
9	Load Resistor (10ohm, 5W)	1	\$0.78	http://www.digikey.com/product-detail/en/vishay-bc-components/AC05000001009JAC00/PPC5W10.0CT-ND/596683
	Total		\$25.19	LID charges ~\$30 for the kit
			" + S &H"	