

Subsystem	Item	unit size	Cost/unit	#	Source	Subtotals	Total
<b>Electrical</b>	Sparkfun Solderable Breadboard		\$4.95	2	DigiKey	\$9.90	<b>235.46</b>
	Adafruit Solderable Breadboard		\$4.00	2	ME210 Stockroom	\$8.00	
	Mikroelekronka Solderable Breadboard		\$0.00	1	Cabinet of Freedom	\$0.00	
	4-40 Hex Standoffs, 1 inch		\$0.20	16	ME210 Stockroom	\$3.20	
	HC-SR04 Ultrasonic Distance Sensor		\$1.68	3	<a href="#">Amazon</a>	\$5.04	
	Coax Cable, 4 Conductor	20cm	\$0.00	1	Cabinet of Freedom	\$0.00	
	Male Molex Connector, 2 pin		\$0.25	15	ME210 Stockroom	\$3.75	
	Female Molex Connector, 2pin		\$0.25	15	ME210 Stockroom	\$3.75	
	Female Molex Connector, 3pin		\$0.25	4	ME210 Stockroom	\$1.00	
	Female Molex Connector, 4pin		\$0.25	6	ME210 Stockroom	\$1.50	
	Male Molex Connector, 4pin		\$0.25	1	ME210 Stockroom	\$0.25	
	4-40 Hex Standoffs, 1/2 inch		\$0.20	8	ME210 Stockroom	\$1.60	
	Male Molex Connector, 4pin		\$0.25	3	ME210 Stockroom	\$0.75	
	Qunqi Buck Converter		\$1.98	3	<a href="#">Amazon</a>	\$5.94	
	Fuse, 5A		\$0.25	1	ME210 Stockroom	\$0.25	
	Fuse Holder		\$1.00	1	ME210 Stockroom	\$1.00	
	Switch, SPDT		\$1.25	1	ME210 Stockroom	\$1.25	
	LM339 Quad Comparator		\$0.00	3	Lab Kits	\$0.00	
	Pololu Encoders		\$7.95	0	218B Stockroom	\$0.00	
	MAX4617CPE+-ND 8x1 Multiplexer		\$2.22	2	DigiKey	\$4.44	
	C535A-WJN-CT0W0231-ND LED COOL WHITE		\$0.21	1	DigiKey	\$0.21	
	C503B-RCN-CW0Z0AA1-ND LED RED CLEAR		\$0.15	1	DigiKey	\$0.15	
	C503B-GCS-CY0C0791-ND LED GREEN		\$0.24	1	DigiKey	\$0.24	
	Resistors, various		\$0.01	24	218B Stockroom	\$0.24	
	Mono Capacitors, various		\$0.15	10	218B Stockroom	\$1.50	
	Polarized Capacitors, various		\$0.25	10	218B Stockroom	\$2.50	
	TP0606N3 Small signal NMOSFET		\$0.10	4	ME210 Stockroom	\$0.40	
	2N3904 NPN BJT		\$0.10	4	ME210 Stockroom	\$0.40	
	Qunqi L298N H-Bridge Module		\$7.00	1	<a href="#">Amazon</a>	\$7.00	
	Potentiometer, 100K		\$0.89	3	Jameco	\$2.67	

	DRV5053VAQLPGRQ1 Hall Effect Sensor		\$0.50	1	218B Stockroom	\$0.50	
	TL974IN Rail-to-Rail Quad Op-Amp		\$0.98	1	DigiKey	\$0.98	
	Braided Wire	1ft	\$0.10	10	218B Stockroom	\$1.00	
	Heat shrink, 1/8", black, 4' length		\$0.99	3	218B Stockroom	\$2.97	
	Lite-On LTR-3208E photo-transistor, IR, 940 nm		\$0.00	3	Lab Kits	\$0.00	
	6C NiMh Battery		\$8.00	2	218B Stockroom	\$16.00	
	Battery Connectors		\$2.00	2	ME210 Stockroom	\$4.00	
<b>Motion</b>	Omni wheels	1	\$10.00	4	old ME210 robot	\$40.00	
	1/4" Duron	18x24"	\$4.00	2	PRL	\$8.00	
	1/8" Duron	48x24"	\$6.00	1	PRL	\$6.00	
	1/4" timing belt (short)	1	\$3.78	1	McMaster	\$3.78	
	1/4" timing belt (long)	1	\$0.00	1	scrap	\$0.00	
	timing belt pulley	1	\$9.95	4	McMaster	\$39.80	
	#10 washers	100	\$0.00	1	scrap	\$0.00	
	1/8" bushings	1	\$0.78	6	McMaster	\$4.68	
	1/8"x1/8" key stock	12"	\$3.18	1	McMaster	\$3.18	
	8-32 3/4" screws	100	\$0.00	1	McMaster(used few)	\$0.00	
	8-32 narrow nuts	100	\$0.00	1	McMaster(used few)	\$0.00	
	#8 washer	100	\$0.00	1	McMaster(used few)	\$0.00	
	M3 screw (motor mounting)	100	\$0.00	1	McMaster(used few)	\$0.00	
	1/8" shaft	12"	\$6.58	2	McMaster	\$13.16	
	Hextronix HX-5010	1	\$5.40	3	TA closet	\$16.20	
<b>Launcher</b>	1/4" flanged bushings	1	\$0.79	2		\$1.58	
	1/4" aluminum shaft	12"	\$6.70	1		\$6.70	