

Item Name	Part No.	Manufacturer	Location Purchased	Unit Cost (CAD)	Quantity	Total
1/4" 6" Carriage Bolt	67337	The Hillman Group	Lowes	\$1.79	3	\$5.37
1/4"-in-20 Galvanized Standard (SAE) Hex Nut	67340	The Hillman Group	Lowes	\$0.17	9	\$1.53
1/4" Galvanized Steel Standard (SAE) Split Lock Washer	61814	The Hillman Group	Lowes	\$0.19	9	\$1.71
1/4" Plywood Piece (Scrap)	N/A	N/A	SJAM Wood Shop	\$0.00	2	\$0.00
2"x2" of PCB Material (Unit Metric)	N/A	N/A	SJAM Tech Department	\$2.00	4	\$8.00
#10 x 2 in. Stainless-Steel Pan-Head Phillips-Drive Sheet Metal Screw (20-Pack)	442360	Everbilt	The Home Depot	\$5.83	1	\$5.83
Sharp IR Range Sensor - GP2D12 Alternative (10cm to 80cm)	GP2Y0A21YK0F	Sharp Microelectronics	Trossen Robotics	\$12.95	2	\$25.90
1/2" Diameter Ball Caster Kit	0069-PLU	Polulu Robots and Electronics	Canada Robotix	\$2.59	4	\$10.36
GM3 - Gear Motors	RB-Sbo-02	Solarbotics	RobotShop	\$7.22	2	\$14.44
GMPW - GM Series Plastic Wheels (Black)	RB-Sbo-59	Solarbotics	RobotShop	\$4.08	2	\$8.16
12V, 16CFM, 33mm Blower Fan	RB-Spa-718	Sparkfun Electronics	RobotShop	\$6.35	1	\$6.35
LCD Display Module	DMC16207	Optrex	Quest Components	\$14.98	1	\$14.98
IC Infrared Phototransistor	QSD123-ND	ON Semiconductor	Digi-Key Electronics	\$0.72	1	\$0.72
IR LED and Photodiode Pair 5mm	SEN-1173	rhydoLabz	rhydoLabz	\$0.78	1	\$0.78
Ribbon Cable - 6 Wire (15ft)	1368-PRT	Canada Robotix	Canada Robotix	\$3.79	1	\$3.79
Break Away Male Headers (Machine 40 pin)	0434-PRT	Canada Robotix	Canada Robotix	\$2.99	1	\$2.99
Break Away Female Headers (Machine 40 pin)	1645-PRT	Canada Robotix	Canada Robotix	\$1.99	1	\$1.99
PIC16F887 Microchip	PIC16F887-I/P-ND	Microchip Technologies	Digi-Key Electronics	\$3.31	1	\$3.31
4-Channel Motor Driver 16-pin Plastic Dip Tube	L293DNE	Texas Instruments	Mouser Electronics	\$3.68	1	\$3.68
40 Pin DIP Socket Carrier	DC-40 Pin	Solarbotics	Solarbotics	\$0.98	1	\$0.98
16 Pin DIP Socket Carrier	DC-16 Pin	Solarbotics	Solarbotics	\$0.39	1	\$0.39
Standard 5 Volt 1 Amp Regulator	51262	Major Brands	Jameco Electronics	\$0.29	1	\$0.29
Transistor General Purpose BJT NPN 40 Volt 0.2 Amp 3-Pin TO-92	178597	Fairchild Semiconductor	Jameco Electronics	\$0.14	4	\$0.56
1000µF 25V 20% Radial Capacitor 105C 10x17x5mm	158298	Jameco Valuepro	Jameco Electronics	\$0.35	1	\$0.35
Capacitor Ceramic Disc 0.1µF 25V ±20%	151116	Jameco Valuepro	Jameco Electronics	\$0.15	5	\$0.75
Capacitor Radial 330 uF 35 Volt 20% 85c 8x12x3.5mm	198978	Jameco Valuepro	Jameco Electronics	\$0.25	1	\$0.25
1/4 Inch Round Cermet Potentiometer 20K Ohms 1/2 Watt 10% 1 Turn Thru Hole Top Adjust	254537	BI Technologies	Jameco Electronics	\$1.25	1	\$1.25
Switch Slide DIP SPST 25MA 24V	732-3831-5-ND	Wurth Electronics Inc.	Digi-Key Electronics	\$1.10	3	\$3.30
Push Button Tactile Switch SPST OFF (ON)	2235111	NKK Switches	Jameco Electronics	\$0.99	1	\$0.99
LED Uni-Color Red 660nm 2-Pin T-1 3/4	333973	Jameco Valuepro	Jameco Electronics	\$0.12	3	\$0.36
TOTAL COSTS						
Provided in Class						\$94.49
Purchased Independently						\$33.73
Final Cost						\$128.22