

Item Number	System	Name	Description	Vendor	Coat Per Item Qty	Item Cost	Budget Projection	Difference in Cost	Vendor Part #	Status
1	Software	Raspberry Pi 3 B+	Microcontroller	SparkFun	339.95				DEV-14643	Received
2	Software	Raspberry Pi 3 B+	Microcontroller	Adafruit	\$35.00	\$130.00		-\$20	3775	Received
3	Software	Stepper Motor Driver	8-35V 2A Bipolar Motor Driver	Robot Shop	\$7.49	\$60.00		\$38	RB-Pol235	Received
4	Software	Flex Cable	RasPi Cable	Adafruit	\$2.95	See Misc.			1731	Received
5	Software	CSIDSI Extender	Cable Extender	Adafruit	\$2.95	See Misc.			3871	Received
6	Software	Kingston microSD card	8GB Class 4 microSD card	Walmart	\$5.99	See Misc.			563142037	Received
7	Software	USB to RS232 Cable	6' USB 2.0 to RS232 DB9 Adapter cable	Newegg	\$15.99	See Misc.			N/A	Received
8	Software	USB Cable	3' Micro-USB to USB cable	Best Buy	\$5.49	See Misc.			4289991	Received
9	Software	USB Cable	1' Micro-USB to USB cable	Best Buy	\$3.99	See Misc.			5624230	Received
10	Software	Dynex HDMI Cable	3' 4K Ultra HD HDMI cable	Best Buy	\$5.99	See Misc.			7525166	Received
11	Software	Mini DIN Power Jacks	PCB Mount DC Female 4 Pin Mini Jacks	Newegg	\$6.50	See Misc.			95A27C3GW5381	Received
12	Software	HDMI to VGA Cable	Adapter Cable and Stereo cable	Adafruit	\$16.95	See Misc.			1151	Received
13	Software	Analog-Digital Converter	6-Channel 16-Bit ADC	Adafruit	\$3.75	See Misc.			656	Received
14	Software	GPIO Header Connectors	Breakout Cable, PiB-V1+V2/3	Adafruit	\$6.95	See Misc.			2029	Received
15	Software	Ethernet Extension Cable	Panel Mount Ethernet Extension Cable	Adafruit	\$4.95	See Misc.			909	Received
16	Software	On/Off Switch	Rugged Metal On/Off LED Switch	Adafruit	\$4.95	See Misc.			482	Received
17	Software	Parma-Proto Super Pack	Parma-Proto Super Pack	Adafruit	\$34.95	See Misc.			591	Received
18	Software	RasPi T-Cobbler Breakout	RasPi T-Cobbler Breakout	Adafruit	\$7.95	See Misc.			2028	Received
19	Camera	Raspberry Pi Camera	8Mp Camera	Adafruit	\$29.95	\$200.00		\$170	3099	Received
20	Camera	Force-Sensitive Resistor	1 meter flex cable for RasPi camera	Adafruit	\$3.95	\$200.00		\$192	2143	Received
21	Electrical	Rotary Encoder	Pressure Sensor	Adafruit	\$7.00	\$50.00		\$29	166	Received
22	Electrical	Rotary Encoder	Rotary Encoder	ATLAS I Project	-	-			-	Inherited
23	Electrical	Power Supply	180W 12V 15A Industrial Power Supply	Jameco Electronics	\$66.60	\$60.00		\$13	2226476	Received
24	Electrical	Linear Actuator Control Board	Actuam Linear Actuator Control Board	Robot Shop	\$40.00	See Misc.			RB-FH-121	Received
25	Electrical	Stepper Motor Driver Carrier	High Current Stepper Motor Driver Carrier	Pololu	\$6.74	See Misc.			2892	Received
26	Electrical	Spool Set	Hook-Up Wire Spool Set 6x25 ft	Adafruit	\$15.95	See Misc.			1311	Received
27	Electrical	Knit Conductive Fabric	Silver Knit Conductive Fabric 20cm square	Adafruit	\$9.95	See Misc.			1167	Received
28	Electrical	USB Power Supply	USB Power Supply	Digkey	\$10.89	See Misc.			3458	Received
29	Electrical	Heat Sink	10PK Heat Sinks	Adafruit	\$4.95	See Misc.			1515	Received
30	Electrical	2-Pin Receptacle Cable	2-Pin JST SM Plug + Cable Set	Adafruit	\$0.75	See Misc.			2880	Received
31	Electrical	3-Pin Receptacle Cable	3-Pin JST SM Plug + Cable Set	Adafruit	\$1.75	See Misc.			1663	Received
32	Electrical	4-Pin Receptacle Cable	4-Pin JST SM Plug + Cable Set	Adafruit	\$6.75	See Misc.			578	Received
33	Electrical	Red Stranded-Core Wire	Red Stranded-Core Wire	Adafruit	\$2.95	See Misc.				Received
34	Electrical	Green Stranded-Core Wire	Green Stranded-Core Wire	Adafruit	\$2.95	See Misc.				Received
35	Electrical	Black Stranded-Core Wire	Black Stranded-Core Wire	Adafruit	\$2.95	See Misc.				Received
36	Electrical	Blue Stranded-Core Wire	Blue Stranded-Core Wire	Adafruit	\$2.95	See Misc.				Received
37	Electrical	White Stranded-Core Wire	White Stranded-Core Wire	Adafruit	\$2.95	See Misc.				Received
38	Electrical	Yellow Stranded-Core Wire	Yellow Stranded-Core Wire	Adafruit	\$2.95	See Misc.				Received
39	Electrical	Full Sized Breadboard	Full Sized Breadboard	Adafruit	\$5.95	See Misc.			239	Received
40	Mechanical	Linear Actuator	P16 Actuator, 100mm, 22.1	Robot Shop	\$90.00	\$100.00		\$10	RB-FH-145	Received
41	Mechanical	Nema 17 Stepper Motor	Bipolar 84oz-in Stepper Motor	Walfram	\$9.38	\$25.14		\$105	572222373	Received
42	Mechanical	Nema 17 Stepper Motor	687 oz-in Stepper Motor	ATLAS I Project	-	-			-	Inherited
43	Mechanical	Stepper Motor Driver	Nema 17 Stepper Motor	Pololu	\$16.95	\$130.00		\$113	2267	Received
44	Mechanical	Stepper Motor Driver	DRV8825 Stepper Motor Driver	Pololu	\$10.45	\$50.00		\$19	2982	Received
45	Mechanical	Timing Belt	Belts to drive linear motion	Adafruit	9.95	See Misc.		-\$40	1184	Received
46	Mechanical	Aluminum 3"x3" Block	6061 Aluminum 3"x3" Block	McMaster Carr	47.26	\$39.80			9008K62	Received
47	Mechanical	Aluminum .25" Thick Sheet	6061 Aluminum .25" Thick 6" Sheet	McMaster Carr	56.64	\$94.52			8975K432	Received
48	Mechanical	Screws, Nuts, Bolts	Various Sizes	Home Depot		\$40.00		\$0	-	Received
49	Mechanical	Plastic Filament	Material for various 3D-printed parts	Brinkman Lab		See Misc.			-	N/A
50	Mechanical	Timing Belt Pulley	Pulleys for belts	Adafruit	11.95	\$83.65		-\$84	1253	Received
51	Mechanical	Guide Rails	Lightweight 24" Linear Shaft	McMaster-Carr	\$41.77	\$167.06		-\$186	591TK43	Received
52	Mechanical	Guide Rails	Lightweight 36" Linear Shaft	McMaster-Carr	\$56.54	\$119.06			591TK53	Received
53	Mechanical	Limit Switches	Limit Switches	ATLAS I Project	-	\$13.00			-	Received
54	Mechanical	Linear Bearings	Limit Switches	Robotshop	\$13.00	\$30.00		-\$4	RB-Inv-20	Received
55	Mechanical	Ball Joint Rod	Pillow Block, .5" Bore Linear Bearings	Grainger	\$49.80	\$298.30		-\$229	2LPH2	Received
56	Mechanical	Steel Dowel Pin	For End Cap Assembly	McMaster Carr	\$0.69	\$59.14			59935K11	Received
57	Mechanical	Carbon Fiber Tube	10 pk For End Cap Assembly	McMaster Carr	\$10.58	\$10.58			9159A396	Received
58	Mechanical	Spring	0.75" OD x 48"	ServoCity	\$69.99	\$69.99		-\$256	635016	Received
59	Mechanical	Spring	1" Long, 0.75" OD, 0.48" ID	McMaster Carr	\$4.55	\$4.55			9657K318	Received
60	Mechanical	Spring	1" Long, 1.225" OD, 1.033" ID	McMaster Carr	\$6.49	\$2		\$2	9657K538	Received
61	Mechanical	6061 Angled Aluminum Sheet	6061 90 Deg Angle Aluminum Sheet	McMaster Carr	\$13.43	Frame - \$100			89015K222	Received
62	Mechanical	High Pull Magnets	6061 90 Deg Angle Aluminum Sheet	McMaster Carr	\$33.19	Frame - \$100			8992K61	Received
63	Mechanical	Clamp On Tee	1/4" Thick, 0.167" Diameter	McMaster Carr	\$2.21	Frame - \$100			5962K964	Received
64	Mechanical	Clamp On Flange	Middle Component of Camera Mount	McMaster Carr	\$5.12	Camera Mount - \$200		-\$11	254M725	Received
65	Mechanical	Clamp On Cross	Heavy Duty Aluminum Clamp On Flange	McMaster Carr	\$33.42	Camera Mount - \$200			9578161	Received
66	Mechanical	Replacement Stylus Tips	Side Components of Camera Mount	McMaster Carr	\$3.24	Camera Mount - \$200		\$122	253M721	Received
67	Mechanical	Miscellaneous Budget \$300	Vacom Bamboo Stylus tip set 3 pk	Newegg	\$9.00	Touch Apparatus - \$15		-\$20	NS2E16823100108	Received
					Shipping	\$365.40				
					Total	\$3,039.04				