

LOCATION	ITEM	Part Number	Qty	Description	Vendor	URL	Unit Price	Total price	NOTES	Motor Lock	Relay/ Solenoid	Servo	LED/ Buzzer	GPIO
PCB	1	1536	1	Piezo Buzzer - 5 volt	Adafruit	https://www.adafruit.com/product/1536	\$0.95	\$0.95					1	
PCB	2	1030	2	Headers for Photon	Pololu	https://www.pololu.com/product/1030	\$0.79	\$1.58		2	2	2	2	2
PCB	3	392	1	Male pin headers, 40 pin, breakaway	Pololu	https://www.pololu.com/category/134/0.1-2.54-mm-male-headers	\$0.75	\$0.75					1	
PCB	4	2781	10	Resistor, 470 ohm	Jameco	https://www.jameco.com/z/CF1-4W471JRC-Resistor-Carbon-Film-470-Ohm-1-4-Watt-5-690785.html	\$0.06	\$0.60	Need 1 resistor; minimum order is 10					
PCB	5	691024	10	Resistor, 4.7 Kohm	Jameco	https://www.jameco.com/z/CF1-4W472JRC-Resistor-Carbon-Film-4-7k-Ohm-1-4-Watt-5-691024.html	\$0.06	\$0.60	Need 6 resistors; minimum order is 10				10	
PCB	6	1787	1	74AHCT125 quad level shifter	Adafruit	https://www.adafruit.com/product/1787	\$1.50	\$1.50			10	10	10	
PCB	7	112214	1	IC socket, 14 pin DIP, 0.3"	Jameco	https://www.jameco.com/z/6000-14DW-R-Socket-IC-14-Pin-Dual-Wipe-Low-Profile-0-3-Inch-Wide_112214.html	\$0.25	\$0.25			1	1	1	
PCB	8	Photon	1	Particle Photon, with headers	Particle	https://store.particle.io/collections/wifi/products/photon	\$19.00	\$19.00			1	1	1	1
PCB	9	2842	1	motor driver based on DRV8838	Pololu	https://www.pololu.com/product/2990	\$3.49	\$3.49		1				
PCB	10	2990	1	LD1117 linear voltage regulator, 5 volt in to 3.3 volt out	Jameco	https://www.jameco.com/shop/ProductDisplay?catalogId=10001&langId=-1&storeId=10001&productId=242114	\$1.39	\$1.39		optional	optional			
PCB	11	544921	7	Capacitor, 0.1 uF; 10 pack	Jameco	https://www.jameco.com/shop/ProductDisplay?catalogId=10001&langId=-1&storeId=10001&productId=544921	\$0.25	\$1.75			7	7	7	7
PCB	12	29891	2	Capacitor, radial, 100 uF	Jameco	https://www.jameco.com/z/RB100-10-Capacitor-Radial-100-uF-10-Volt-105c-5x11x3-5mm_1946228.html	\$0.25	\$0.50		2	2	1	1	1
PCB	13	PCB	1	Printed circuit board	jlcpcb	https://jlcpcb.com	\$2.00	\$2.00	\$2.00 for 5 boards, plus shipping. Upload the Eagle CAM .zip file to this web site for a complete quote and to order.					
PCB	14	35991	2	diode, 1N4004	Jameco	https://www.jameco.com/z/1N4004-Major-Brands-Diode-1N4004-400-Volt-1-Amp-Silicon-RectifierDiode_35991.html	\$0.25	\$0.50		1	1	1	1	1
PCB	15	787536	1	transistor, 2N2222A; TO-92 package	Jameco	https://www.jameco.com/z/PN2222ATRA-Fairchild-Semiconductor-Transistor-PN2222A-General-Purpose-NPN-40-Volt-1-Amp-TO-92_787536.html	\$0.39	\$0.39			2			
PCB	16		1	relay, 5 volt - 150 ohm, DPDT		https://www.jameco.com/shop/ProductDisplay?catalogId=10001&langId=-1&storeId=10001&productId=139977	\$2.99	\$2.99			1			
PCB	17	1015	2	female pin header, 0.1", 5 position	Pololu	https://www.pololu.com/product/1015	\$0.44	\$0.88				1		
PCB	18	2094506	4	PCB terminal block, 3.5 mm, 2 position	Jameco	https://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?catalogId=10001&langId=-1&storeId=10001&productId=2094506	\$0.49	\$1.96		2				
PCB	19	2094514	4	PCB terminal block, 3.5 mm, 3 position	Jameco	https://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?catalogId=10001&langId=-1&storeId=10001&productId=2094514	\$0.79	\$3.16		2	1		1	
PCB	20	230958	1	PCB USB connector, type B female	Jameco	https://www.jameco.com/z/USB-B-S-RA-CS1-SPCC-WT-Adam-Technologies-Connector-USB-2-0-USB-B-Pcb-Female-Right-Angle_230958.html?CID=MERCH	\$0.79	\$0.79			1			3
										1	1	1	1	1

S/T PCB:

\$34.86