

Components	Quantity	Price	Total	Link	Additional Notes
ATtiny85 microcontroller	5	\$ 1.90	\$ 9.50	<a href="#">digikey</a>	\$8.46 in tax & shipping
DS965 NPN Transistor	1	\$ 1.00	\$ 1.00	<a href="#">Transistor</a>	Items for stun gun
Fly Back transformer (1:4:100)	1	\$ 5.00	\$ 5.00	<a href="#">Transformer</a>	Items for stun gun
Push Button/Switch	2	\$ 2.00	\$ 4.00	<a href="#">Soft Touch Button</a>	Items for stun gun
Resistors (150k,1k, )	4	\$ 0.01	\$ 0.04	<a href="#">Variety Pack of Resistors</a>	can get resistors from senior design storage
Capacitor (1nFx2, 1uF)	3	\$ -	\$ -		can get capacitors from senior design storage
1N4007 Diode	3	\$ 0.21	\$ 0.63	<a href="#">Diode</a>	Items for stun gun
Battery (3.7 v lipo)	1		\$ -		Items for stun gun
Buck Boost converter	2	\$ 2.19	\$ 4.38	<a href="#">Buck Boost Converter</a>	Items for stun gun
DFRobot SEN0294 Pressure Sensor - Big	1	\$ 5.00	\$ 5.00	<a href="#">Pressure Sensor Big</a>	Items for stun gun
DFRobot SEN0294 Pressure Sensor - Small	4	\$ 6.95	\$ 27.80	<a href="#">Pressure Sensor Small</a>	Items for stun gun
Charger IC Lithium Ion/Polymer	1	\$ 1.38	\$ 1.38	<a href="#">IC Battery Charger</a>	MCP73838
Micro USB 2.0 Connector	1	\$2.35	\$ 2.35	<a href="#">Micro USB surface mount</a>	GMCBA058211230HHR
Diode Schottky 30 V 2A	1	\$0.49	\$ 0.49	<a href="#">Diode Schottky</a>	PMEG3020DEP
MOSFET P-CH 20V 2A	1	\$0.44	\$ 0.44	<a href="#">P-MOSTFET</a>	NX2301P
Linear Voltage Regulator IC Positive Fixed 1 Output	1	\$0.37	\$ 0.37	<a href="#">IC Linear Regulator</a>	AP2112
Electrolytic Capacitor 10 uF	3		\$ -		
0603 LED Blue	1	\$0.45	\$ 0.45	<a href="#">Surface Mount LED</a>	
0603 LED Green	1	\$ 0.31	\$ 0.31	<a href="#">Surface Mount LED</a>	
0603 Resistor 1 Kohm	2	\$ 0.10	\$ 0.20	<a href="#">Surface Mount Resistor</a>	
0603 Resistor 2 Kohm	1	\$ 0.10	\$ 0.10	<a href="#">Surface Mount Resistor</a>	
0603 Resistor 10 Kohm	2	\$ 0.10	\$ 0.20	<a href="#">Surface Mount Resistor</a>	Items 8, 12-22 for power/recharging battery
SIM800L	1	\$ 3.50	\$ 3.50		Items for GPS
1000 uF capacitor	2	\$ 1.00	\$ 2.00		Items for GPS
100 nF capacitor	1	\$ 0.50	\$ 0.50		Items for GPS
universal PCB, pins & connector	1	\$ 2.00	\$ 2.00		Items for GPS
10 uF capacitor	1		\$ -		Items for Bluetooth
HC-05 Bluetooth module	1	\$ 9.00	\$ 9.00		Items for Bluetooth
Shipping	1	\$ 100.00	\$ 100.00		estimated costs for shipping
Making PCBs	2	\$ 100.00	\$ 200.00		estimate cost of production for PCBs
			\$ -		Transformer Ferrite core
<b>Design Section</b>					
Knuckle Studs	2	\$ 5.50	\$ 11.00	<a href="#">Studs</a>	
Finger Studs	2	\$ 2.10	\$ 4.20	<a href="#">Finger Studs</a>	
Fingerless Gloves	2	\$ 17.99	\$ 35.98	<a href="#">Glove</a>	
Spanx	2	\$ 5.40	\$ 10.80	<a href="#">Spanx</a>	
Blank Badge	2	\$ 4.79	\$ 9.58	<a href="#">Blank Badge</a>	
Mitten Clamps	2	\$ 6.99	\$ 13.98	<a href="#">Clamps</a>	
			\$ -		
			\$ -		
Grand Total		\$ 456.68			