
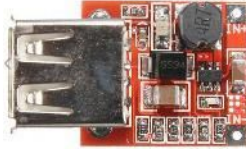
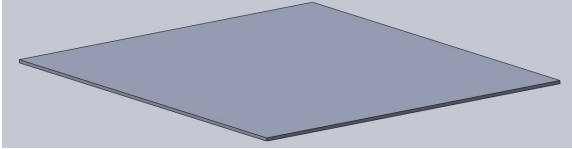
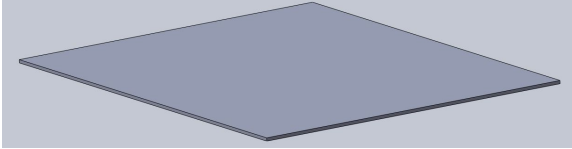






ENGR 40M Inventory, summer 2017

Box parts

Box parts	Description	Quantity	Check
	Lithium polymer battery	1	
	5V USB converter board	1	
	Polycarbonate Sheet, Short	1	
	Polycarbonate Sheet, Long	1	
	Small breadboard	2	
	Medium breadboard	1	
	Large breadboard	1	
	Wire kit	1	

	Alligator clip wires	6	
	Jumper wires	Bag of 65	
	Multimeter	1	
	Solar panel	1	
	3 AA battery holder	1	
	Solarbotics gear motor	1	
	AA Batteries	3 - 4	
	Audio cable	1	
	USB-A to μUSB-B Cable	2	

Bag parts

Pay attention to the part numbers, because some parts look exactly alike.

Bag parts	Part #	Description	Quantity	Check
		Arduino Metro Mini	2	
	AR027150 -MR-R or equiv.	Speaker	1	
	LM4250C	Operational amplifier	1	
	INA126P	Instrumentation amplifier	1	
		LED's (Red, Green, Blue, & White)	4	
	BS250P	P-channel MOSFET	10	
	1N5819	Schottky diode	2	





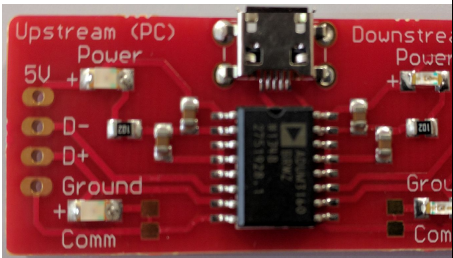

	NDP6020P	P-channel MOSFET	2	
	RFP12N10L	N-channel MOSFET	2	
	EG2400-ND	DPDT switch with mounting hardware	1	
	ZMA00A150L04 PC	Limit switch	1	
		27 Ω power resistor (red-purple-black)	2	
		82 Ω resistor (grey-red-black)	10	
		100 Ω resistor (brown-black-brown)	1	
		560 Ω resistor (green-blue-brown)	1	
		1 k Ω resistor (brown-black-red)	1	


		10 k Ω resistor (brown-black-orange)	4	
		51 k Ω resistor (green-brown-orange)	1	
		100 k Ω resistor (brown-black-yellow)	3	
		220 k Ω resistor (red-red-orange)	2	
		1M Ω resistor (brown-black-green)	3	
		47 μ F capacitor	1	
		1 μ F capacitor	1	
		0.1 μ F capacitor	2	
		200 μ F capacitor	4	
		Finger Retaining Hardware (#2 x 1/4" 18-8 SS Truss Head Screw & #2 18-8 SS Flat Washer)	1 set	
		Audio connector	1	

Parts you'll get later

You'll get a few additional parts for the useless box (and maybe other stuff) when you need it.




Below are some things you should expect to receive later-

Later parts	Part #	Description	Quantity	
		#2 Plastite Screw	2	
		#6 Plastite Screw	2	
		LEDs (red, green, blue or white)	64	
		10 k Ω "breadboard-friendly" single turn potentiometers	1	
		USB isolator board	1	
		22 Ω resistor (red-red-black) for isolation pcb	4	

		EKG electrodes	4	
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Lab Stock

Also, the lab will be stocked with wire, resistors, various tools, etc. Here's some of what you're likely to find...

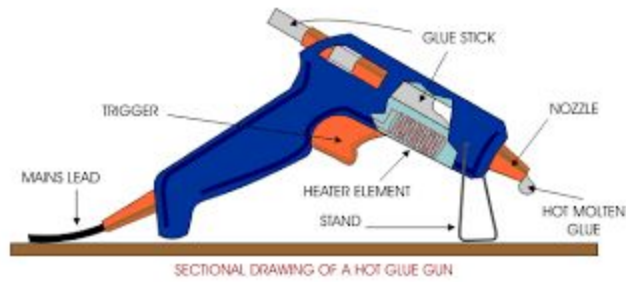
Lab Stock	Description
	22 AWG Solid hook up wire, various colors
	22 AWG Stranded hook up wire, various colors
	Double sided mounting tape



Electrical Tape



Clear polyolefin heat shrink tubing



Hot melt glue / Hot glue gun