

Level	PN	Description	Procurement Method/Supplier	Qty	Part Cost	Total Cost
1		LOBBYIST				\$83.51
2		Structure				
3		Masonite Sheet	Bin of Freedom	3	\$0.00	\$0.00
3		4-40 Nuts	Room 36	20	\$0.05	\$1.00
3	91772A110	4-40 x 1/2" Phillips Screw, 100 pack	McMaster	0.5	\$4.45	\$2.23
3		4-40 Washers	Bin of Freedom	6	\$0.00	\$0.00
3		Hex Standoffs	Bin of Freedom	8	\$0.00	\$0.00
3		Bumper	SPDL Provided	1	\$0.00	\$0.00
3	B00P5UVM0W	Stuffed Sea Turtle	Amazon	1	\$14.99	\$14.99
3		Ninja Turtles Shell	Toys R Us	1	\$14.99	\$14.99
3		Fuel Gauge	Recycled	1	\$0.00	\$0.00
3		Jet Turbine	3D Printed	2	\$0.00	\$0.00
3		Sunglasses	Recycled	1	\$0.00	\$0.00
3		Ripstop Nylon	Jo-Anne's	1	\$2.74	\$2.74
3		Zip-ties	Bin of Freedom	4	\$0.00	\$0.00
2		Power Distribution				
3		Tiva Microcontroller	SPDL Provided	1	\$0.00	\$0.00
3		XBee Radio	SPDL Provided	1	\$0.00	\$0.00
3		7.2V NiCd Battery	Bin of Freedom	2	\$0.00	\$0.00
3		7.2V NiMH Battery	Bin of Freedom	2	\$0.00	\$0.00
3		Battery Connectors	Bin of Freedom	2	\$0.00	\$0.00
3		On/Off Switch	Bin of Freedom	2	\$0.00	\$0.00
3	LP2950CZ-3.3	Voltage Regulator	Bin of Freedom	1	\$0.00	\$3.84
3	DROK® LM2596	Voltage Regulator	Bin of Freedom	1	\$0.00	\$0.00
3		Fuse, 5A	Bin of Freedom	1	\$0.00	\$0.00
3		Fuse, 10A	Bin of Freedom	1	\$0.00	\$0.00
3		Power Distribution and Fan Board				
4		3.3 µF Capacitor	SPDL	3	\$0.10	\$0.30
4		3.3 µF Capacitor	SPDL	2	\$0.10	\$0.20
4		0.1 µF Capacitor	SPDL	2	\$0.10	\$0.20
4		0.1 µF Capacitor	SPDL	3	\$0.10	\$0.30
4		Solderable Protoboard, 1/2	Adafruit	1	\$4.50	\$4.50
4		Terminal Block	Fry's Electronics	2	\$0.29	\$0.58
4		Double Pin Male Headers	SPDL	5	\$0.15	\$0.75
4		Double Pin Female Headers	SPDL	5	\$0.15	\$0.75
4		Crimps	SPDL	5	\$0.10	\$0.50
4		Red LED	Bin of Freedom	2	\$0.00	\$0.00
4		Green LED	Bin of Freedom	1	\$0.00	\$0.00
4		Yellow LED	Bin of Freedom	1	\$0.00	\$0.00
4	2N3904	NPN BJT	Bin of Freedom	1	\$0.00	\$0.00
4	TRFU5305	PMOS Transistor	Bin of Freedom	1	\$0.00	\$0.00
4		Diode	Bin of Freedom	3	\$0.00	\$0.00
4		Lift Fan	SPDL Provided	1	\$0.00	\$0.00
4		2.2k Resistor	SPDL	1	\$0.01	\$0.01
4		720 Ohm Resistor	SPDL	1	\$0.01	\$0.01

4				220 Ohm Resistor	Bin of Freedom	2	\$0.01	\$0.02
2				Motor Control				
3				Brushed DC Motor with Props	Bin of Freedom	2	\$0.00	\$0.00
3	Tower Pro MG995			High Torque Servo, 4Pk	Amazon	1	\$28.88	\$28.88
3				100 pf Capacitor	SPDL	2	\$0.10	\$0.20
3				H-Bridges				
4	TLE-5260			Motor Driver	Bin of Freedom	2	\$0.00	\$0.00
4				100 µF Capacitor	Bin of Freedom	2	\$0.00	\$0.00
4				10 pF Capacitor	Bin of Freedom	2	\$0.00	\$0.00
2				DMC and LED Control				
3				Servo, 9gm	Bin of Freedom	1	\$0.00	\$0.00
3				RGB LED Strip	Bin of Freedom	2	\$0.00	\$0.00
3	74HC14			Hex Inverting Schmitt Trigger	Bin of Freedom	1	\$0.00	\$0.00
3				0.1 uf Capacitor	SPDL	3	\$0.10	\$0.30
3				2.2k Resistor	SPDL	3	\$0.01	\$0.03
3	PIC12F752			PIC Microcontroller	SPDL - Provided	1	\$0.00	\$0.00
3	ULN2003A			Darlington Transistor Array	SPDL - Provided	5	\$0.00	\$0.00
3				Solderable Protoboard, Thin	SPDL	1	\$0.50	\$0.50
2				Badge Input and 7-Segment Display				
3	LM6144			7-Segment Display	SPDL	1	\$5.67	\$5.67
3	74HCT95			Shift Register	Bin of Freedom	1	\$0.00	\$0.00
3				2.2k Resistor	SPDL	2	\$0.01	\$0.02
3				220 Ohm Resistor	Bin of Freedom	1	\$0.00	\$0.00
1				PAC				\$117.79
2				Structure				
3	B00007E9BC			Inflatable Sea Turtle	Amazon	1	\$10.59	\$10.59
3				Helmet	Amazon	1	\$12.00	\$12.00
3				Goggles	Amazon	1	\$7.00	\$7.00
3				Wire Hose	Home Depot	1	\$2.00	\$2.00
3				Straps	Recycled	1	\$0.25	\$0.25
3				Plastic Hose	Bin of Freedom	1	\$0.00	\$0.00
3	8869461705			20 Oz. Fiber Fill	Michaels	1	\$5.49	\$5.49
3				Acrylic Sheet	Room 36	1	\$0.50	\$0.50
3	72879260366			Nylon Strap	Jo-Ann's	2	\$3.49	\$6.98
3				Buckle	Jo-Ann's	2	\$3.85	\$7.70
3	886946664021			Red Fabric	Michaels	1	\$1.49	\$1.49
3				8-32 Nuts	Room 36	4	\$0.01	\$0.04
3				8-32 Screws	Room 36	4	\$0.01	\$0.04
3	72879066791			Thread for Sewing	Michaels	1	\$0.99	\$0.99
2				Power Distribution				
3				Tiva Microcontroller	SPDL	1	\$20.00	\$20.00
3				XBee Radio	SPDL Provided	1	\$0.00	\$0.00
3				7.2V NiCd Battery	Bin of Freedom	1	\$0.00	\$0.00
3	DROK® LM2596			Voltage Regulators	Bin of Freedom	1	\$0.00	\$3.84
3				Voltage Regulators	Bin of Freedom	1	\$0.00	\$0.00
3				Power Distribution Board, Main				
4				Capacitor, 220uf	SPDL	2	\$0.10	\$0.20

4				Capacitor, 10uf	SPDL	2	\$0.10	\$0.20
4				Terminal Block, small	SPDL	3	\$0.25	\$0.75
4				Terminal Block, large	Bin of Freedom	3	\$0.00	\$0.00
4				Solderable Protoboard, 1/2	Adafruit	1	\$4.50	\$4.50
4				Terminal Block	Fry's Electronics	2	\$0.29	\$0.58
4				Molex Connectors, Male	SPDL	4	\$0.15	\$0.60
2				User Interface				
3				Pill Box	Recycled	2	\$0.25	\$0.50
3				Twisted Pair Wire, 1ft	SPDL	20	\$0.10	\$2.00
3				UI Board, Main				
4				Push Button, Momentary	Recycled	2	\$0.10	\$0.20
4				3.3k Resistor	Bin of Freedom	2	\$0.10	\$0.20
4	74HC14			Hex Inverting Schmitt Trigger	Bin of Freedom	2	\$0.00	\$0.00
4				10k Resistor	Bin of Freedom	8	\$0.00	\$0.00
4				Red LED	Bin of Freedom	1	\$0.00	\$0.00
4				Blue LED	Bin of Freedom	1	\$0.00	\$0.00
4				Yellow LED	Bin of Freedom	1	\$0.00	\$0.00
4				Green LED	Bin of Freedom	1	\$0.00	\$0.00
4				Solderable Protoboard, 1/2	Adafruit	1	\$4.50	\$4.50
4	2N7000			N-Channel MOSFET	Bin of Freedom	1	\$0.00	\$0.00
4				Molex Connectors, Male	Bin of Freedom	6	\$0.00	\$0.00
4				Toggle Switch	Bin of Freedom	1	\$0.00	\$0.00
4				Rotary Switch	Bin of Freedom	1	\$0.00	\$0.00
4				Solderable Protoboard, 1/4	Adafruit	1	\$2.83	\$2.83
4				100 Ohm Resistor	SPDL	2	\$0.01	\$0.02
4				220 Ohm Resistor	Bin of Freedom	2	\$0.00	\$0.00
4				1.5k Resistor	Bin of Freedom	2	\$0.00	\$0.00
4	Pololu 1645			FSR	Jameco	2	\$9.95	\$19.90
4	1766			Shake Sensor	Adafruit	2	\$0.95	\$1.90
	Consumable			Solder	Bin of Freedom	-	\$0.00	\$0.00
	Consumable			Heat Shrink	SPDL	-	\$1.00	\$1.00
	Consumable			Hot Glue	SPDL Provided	-	\$0.00	\$0.00
	Consumable			Gaffers tape	Recycled	-	\$0.65	\$0.65
	Consumable			Duct Tape	Recycled	-	\$0.85	\$0.85
							Consumables Total	
							\$2.50	
							Grand Total	
							\$203.80	