

Team #:	P18071	Team Name:	Sample MSD Project
Date:	12/5/2017 14:09	Document Owner:	Team Member
Revision #:	5	Revised By:	I. Garland

Budget: Total: 1381.76
Remaining: -1381.76

Subsystem	Team Part #	Item	Qty	Unit Cost	Total Cost	Vendor	Website	Ordered	Received	Notes
Software		IAR systems(used for programing uC)(Provided by Customer)	1	0	0					
Software		Amazon RDS	1	0	0					
Mechanical		CAD software (university provided)	1	0	0	Inventor/Creo				
Mechanical		Hockey helmet	1	89	89	Bauer				
Mechanical		Football helmet	1	50	50					
Mechanical		mannequin head for helmet 495, 535, 575, 605 mm	4	25	100					
Mechanical		Impact test equipment (university provided)	1		0	Packaging Science				
Mechanical		80/20 T slot assembly materials	10	2.5	25					
Mechanical		80/20 fastners and bolts	40	0.4	16					
Electrical		Touch Screen For Raspberri pi	1	35	35		https://www.amazon.com/dp/B013IECYF2/ref=sspa_dk_detail_67psc=1			
Electrical		Rasberi pi	1	35	35					
Electrical		16 gb SD Card	1	8	8					
Electrical		Ethernet cable	1	5	5					
Electrical		sensor boards fabricated and assembled	50	20	1000					
Electrical		Collector board			0					
Electrical		ADXL377 ±200g Accelerometer	1	11.58	11.58	Digi-Key	https://www.digikey.com/product-detail/en/anal			
Electrical		MKW21D512VHA RF Transciever	1	7.18	7.18	Digi-Key	https://www.digikey.com/product-detail/en/nxp-			
Electrical		BQ24023 Li-Poly Charger	1	2.97	2.97	Digi-Key	https://www.digikey.com/product-detail/en/txas			
Electrical		TPS74701 Linear Voltage Regulator	1	2.05	2.05	Digi-Key	https://www.digikey.com/product-detail/en/txas			
Electrical		MICRO USB TYP A CONNECTOR	1	0.27	0.27	Mouser	https://www.mouser.com/ProductDetail/Hirose-C			
Electrical		3MM Red LED	1	1.15	1.15	Digi-Key	https://www.digikey.com/product-detail/en/lume			
Electrical		3MM Green LED	1	1.22	1.22	Digi-Key	https://www.digikey.com/product-detail/en/lume			
Electrical		1.6k OHM RESISTOR	1	1.26	1.26	Mouser	https://www.mouser.com/ProductDetail/Panason			
Electrical		1k OHM RESISTOR	1	0.6	0.6	Mouser	https://www.mouser.com/ProductDetail/Panason			
Electrical		3.48k OHM RESISTOR	1	0.59	0.59	Mouser	https://www.mouser.com/ProductDetail/Panason			
Electrical		10uF CAPACITOR	1	3.44	3.44	Mouser	https://www.mouser.com/ProductDetail/Panason			
Electrical		0.1uF CAPACITOR	3	1.09	3.27	Mouser	https://www.mouser.com/ProductDetail/Panason			
Electrical		1uF CAPACITOR	1	3.92	3.92	Mouser	https://www.mouser.com/ProductDetail/Panason			
Mechanical		Single acting round body piston, 1.5" bore, 6" stroke	1	73.34	73.34	Mc master Carr				
Mechanical		Piston Foot Brackets 6498K34	2	6.42	12.84	Mc master Carr				
Mechanical		Aluminum Plate 1" x 6" x 2ft (F416)	1	79.68	79.68	Metal Depot	https://www.metalsdepot.com/aluminum-products/aluminum-flat-bar			
Mechanical		Aluminum Plate 1/2" x 4" x 1ft (F4124)	1	14.69	14.69	Metal Depot	https://www.metalsdepot.com/aluminum-products/aluminum-flat-bar			
Mechanical		1/8" pneumatic tube								
Mechanical		pneumatic adapter								
Mechanical		Apoxy	1							