

System BOM						
System	Component	Qty	Unit Price	Extended Price	Vendor	Website
Electrical	ATMEGA328 Arduino Uno	1	\$10.00	\$10.00	TBD	http://www.digikey.com/product-detail/en/A000066/1050-1034-ND/2794006
	PCB Board	1	\$20.00	\$20.00	OSH Park	TBD
	16MHz Oscillator	1	\$5.00	\$5.00	TBD	TBD
	IR Sensor	2	*	*	N/A	https://www.sparkfun.com/products/8958
	Pressure Sensor	2	\$19.95	\$39.90	Sparkfun	https://www.sparkfun.com/products/8685
	1k resistor, surface mount	15	TBD	TBD	TBD	TBD
	1M resistor, surface mount	5	TBD	TBD	TBD	TBD
	10u Capacitor, surface mount	5	TBD	TBD	TBD	TBD
	100n Capacitor, surface mount	5	TBD	TBD	TBD	TBD
	47u Capacitor, surface mount	5	TBD	TBD	TBD	TBD
	Zener Diodes, 3.3V	3	*	*	N/A	N/A
	Zener Diodes, 5.1V	2	*	*	N/A	N/A
	LED, clear/green glow	2	\$0.33	\$0.66	Digi-Key	http://www.digikey.com/product-search/en?keywords=160-1144-ND&WT.z_headers=search_ao
	Buzzer	1	TBD	TBD	TBD	TBD
	Diode, 1N4404	1	TBD	TBD	TBD	TBD
	Diode, power protection	3	TBD	TBD	TBD	TBD
	Connector, ribbon wire	5	-1.00	TBD	TBD	TBD
	Ribbon Wire	10ft	TBD	TBD	TBD	TBD
	Electrical Wire	A/R	*	*	N/A	N/A
	Regulator, 3.3V	2	TBD	TBD	TBD	TBD
	Regulator, 5V	2	TBD	TBD	TBD	TBD
	DC source connection	1	\$1.18	1.18 + S/H	Digi-Key	http://www.digikey.com/product-search/en?keywords=CP-102AH-ND&WT.z_headers=search_ao
	Micro SD card socket	1	\$3.95	\$3.95 + S/H	Sparkfun	https://www.sparkfun.com/products/137
	Converter, Hex (SD card)	2	\$0.59	1.18 + S/H	Mouser Electronics	http://www.mouser.com/ProductDetail/STMMicroelectronics/N174HC4050BM13TR?qs=%2ha2yvaduudx4cUj15pffpnaAfuE8yZDOUCuNAWUK3d
	Solenoid Transistor CSD1853JKCS	3	\$1.98	\$5.94	Digikey	http://www.digikey.com
	Solenoid	1	*	*	N/A	N/A
	Solenoid plug	1	TBD	TBD	TBD	TBD
	Sensor Casing, 3D printed	1	TBD	TBD	RIT	http://www.rit.edu
	Speaker, Piezo	1	\$1.95	1.95 + S/H	Sparkfun	https://www.sparkfun.com/products/7950
	Clock	1	\$0.54	.54 + S/H	Digi-Key	http://www.digikey.com/product-search/en?keywords=300-6034-ND&WT.z_headers=search_ao
	Processor	1	\$4.33	4.33 + S/H	Digi-Key	http://www.digikey.com/product-detail/en/ATMEGA8-16PU/ATMEGA8-16PU-ND/739787
	Battery Pack	1	TBD	TBD	TBD	TBD
	Mechanical	Ankle Brace, Mueller Ankle Stabilizer	1	12.97	12.97	Walmart
Nylon Strap, black		A/R	*	N/A	N/A	N/A
Ribbon, gold		A/R	*	N/A	N/A	N/A
Ribbon, red		A/R	*	N/A	N/A	N/A
Lower Leg Compression Sleeve		1	*	N/A	N/A	N/A
Muscle Support Clip		2	TBD	TBD	TBD	TBD
McKibben Muscle		1	N/A	N/A	N/A	N/A
1/4" Tubing, PBC		6ft	*	N/A	N/A	N/A
Silicon Tubing		7in	TBD	TBD	TBD	TBD
Fiber Mesh Sleeve		7in	*	N/A	N/A	N/A
Worm Clamps		2	*	N/A	N/A	N/A
Muscle Support Adaptor		2	**	N/A	RIT machine shop	N/A
Plastic Plugs		2	**	N/A	N/A	N/A
Compressed Air Tank		1	9.00/ air refill	\$54	N/A	N/A
Fishing line, 60lbs (muscle tether)		2ft	*	N/A	Performance Paintball	http://reaperpb.com/
Tensioner	1	*	N/A	N/A	N/A	
Tank Regulator	1	*	N/A	Performance Paintball	http://reaperpb.com/	
Quick Connect, 1/8"	2	*	N/A	N/A	N/A	
Other	Backpack	1	*	N/A	N/A	N/A

* Already have component
 ** Component will be built by team and team already has necessary materials

Note:
 - Cells highlighted yellow indicate newly added items
 - Red wording indicates item edits
 - Vendor, Website, Unit Price, and Extended Price are newly added columns