

BlueStamp Engineering Student Bill of Materials (BOM)

Please fill this out for all parts that will be required for your project.

If you cannot find information, move on and ask your instructor when emailing this to them.

Item #	Description	Vendor	Part Number	Qty	Unit Cost	Cost	Link to Where to Purchase
PART I							
1	LilyPad Arduino 328	amazon		1	15.99	15.99	https://www.amazon.com/LilyPad-Arduino-Development-ATmega328P-Module-3V3-5V-USB-DFDR/dp/B011DK18VD/ref=sr_1_1_sspa?ie=UTF8&qid=1527229753&sr=8_1_sspa&keywords=LilyPad+Arduino+328+Module+Board&psc=1
2	Shoe Insoles	Amazon	B07CMNL358	1	11.99	11.99	https://www.amazon.com/Athletic-Providing-Excellent-Absorption-Orthotic-Insoles/dp/B07CMNL358/ref=sr_1_2_sspa?ie=UTF8&qid=1528872412&sr=8_2_sspa&keywords=shoe+insoles&psc=1
3	Running Shoe	Amazon	E630	1	29.98	29.98	https://www.amazon.com/Teala-TF-X700-BRO_Men's-Lightweight-Sports-Running/dp/B079SLJFSL/ref=sr_1_5?ie=UTF8&qid=1526873518&sr=1_5&keywords=running+shoes&psc=1
4	Flora Wearable Ultimate GPS Module	Adafruit	1059	1	46.95	46.95	https://www.amazon.com/Flora-Wearable-Ultimate-GPS-Module/dp/B013H11D52/ref=sr_1_2?ie=UTF8&qid=1527229176&sr=1_2&keywords=Flora+Wearable+Module+GPS+Module
5	HM10 BLE Module	Amazon	B0140R8DQG	1	12.99	12.99	https://www.amazon.com/Quint-Bluetooth-HM-10-Module-Conversion/dp/B0140R8DQG
6	Lithium Ion Battery	Sparkfun	8483	1	16.47	16.47	https://www.amazon.com/Sparkfun-Lithium-2000mAh-Computer-Controller/dp/B012J1W461/ref=sr_1_3?ie=UTF8&qid=1527229338&sr=1_3&keywords=li-ion+battery
7	Sparkfun Lipo Charger Basic - Micro-USB	adafruit	10217	1	9.52	9.52	https://www.amazon.com/adafruit-Micro-USB-Jack-to-Battery-Charger/dp/B008KCP9YC/ref=sr_1_1?ie=UTF8&qid=1527229634&sr=1_1&keywords=li-ion+charger
9	Vibrating Mini Motor Disc	Tinkersphere	TS-711	2	5.43	10.86	https://www.amazon.com/adafruit-Vibrating-Mini-Motor-ADA1201/dp/B008KCP9YC/ref=sr_1_1?ie=UTF8&qid=1527229693&sr=1_1&keywords=Vibrating+Mini+Motor+Disc+3A+1.5V+-+3V
10	adafruit microSD Breakout	adafruit	ADA254	1	9.57	9.57	https://www.amazon.com/adafruit-MicroSD-breakout-board-ADA254/dp/B00NAY2NAU/ref=sr_1_1?ie=UTF8&qid=1527229651&sr=1_1&keywords=SparkFun+level+5+Shifting+microSD+Breakout
TOTAL COST:					Total:	164.32	
PART II							
1	Force Sensor	Adafruit	1075	1	7.95		https://www.adafruit.com/product/1075?ie=UTF8&qid=1527229651&sr=1_1&keywords=SparkFun+level+5+Shifting+microSD+Breakout
2	50kg Force Sensor (more accurate than one above)	Sparkfun	RB-Spa-488	1	9.95		https://www.robotshop.com/en/50kg-load-sensor-50kg.html
3	Pulse Sensor	Sparkfun	Sen - 11574	1	24.95		https://www.sparkfun.com/products/11574
I would also need to 3D print some housing parts for the force sensor							
TOTAL COST:					42.85		
Rohan S.							