

# BlueStamp Engineering Student Bill of Materials (BOM)

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

## Base Project

Item #	Description	Vendor	Part Number	Qty	Cost	Link to Where to Purchase
1	Raspberry Pi	Amazon	3 Model B	1	\$36.98	<a href="https://www.amazon.com/Raspberry-Pi-RA/">https://www.amazon.com/Raspberry-Pi-RA/</a>
3	Optocoupler Encoder Sensor	Ebay	LM293	1	\$4.27	<a href="https://www.ebay.com/itm/Slot-type-Optoco">https://www.ebay.com/itm/Slot-type-Optoco</a>
4	Adafruit 9dof sensor	Amazon	BNO055	1	\$32.19	<a href="https://www.amazon.com/Adafruit-Absolute">https://www.amazon.com/Adafruit-Absolute</a>
8	lipstick battery pack	Amazon		1	\$12.99	<a href="https://www.amazon.com/SoMi-UL-Approve">https://www.amazon.com/SoMi-UL-Approve</a>
10	Arduino (w/ programming cable)	Amazon	Elegoo	1	\$11.86	<a href="https://www.amazon.com/Elegoo-EL-CB-00">https://www.amazon.com/Elegoo-EL-CB-00</a>
11	Small Breadboard	Amazon		1	\$5.99	<a href="https://www.amazon.com/Phantom-YoYo-P">https://www.amazon.com/Phantom-YoYo-P</a>
12	Motor Driver (depends on your motors)	Sparkfun	TB6612FNG	1	\$4.95	<a href="https://www.sparkfun.com/products/14451">https://www.sparkfun.com/products/14451</a>
13	RC Car (cheaper at target)	Amazon		1	\$39.99	<a href="https://www.amazon.com/New-Bright-Remc">https://www.amazon.com/New-Bright-Remc</a>
14	Jumper cables	Amazon		1	\$7.29	<a href="https://www.amazon.com/Solderless-Flexib">https://www.amazon.com/Solderless-Flexib</a>
15	Ethernet Cable (+ necessary dongles)	Amazon		1	\$5.12	<a href="https://www.amazon.com/AmazonBasics-R">https://www.amazon.com/AmazonBasics-R</a>
16	SD card 16gig (+ necessary dongles)	Amazon		1	\$5.99	<a href="https://www.amazon.com/Kingston-Canvas-">https://www.amazon.com/Kingston-Canvas-</a>
17	LiPo battery	Sparkfun		1	\$9.95	<a href="https://www.sparkfun.com/products/13854">https://www.sparkfun.com/products/13854</a>
				Total:	\$177.57	