

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	Cost	Link to Where to Purchase
1	Ball Caster	Pololu	955	1	\$2.99	https://www.pololu.com/product/955
2	Arduino Uno	Digikey	1050-1024-ND	1	\$23.38	https://www.digikey.com/product-detail/en/arduino/A000066/1050-1024-ND/2784006
3	Motors	Digikey	1568-1161-ND	2	\$25.90	https://www.digikey.com/product-detail/en/sparkfun-electronics/ROB-12285/1568-1161-ND/5673747
4	Motor Brackets	Pololu	1086	1	\$10	https://www.pololu.com/product/1086
5	Wheels	Digikey	ROB-08899-ND	1	\$14	https://www.digikey.com/product-detail/en/sparkfun-electronics/ROB-08899/ROB-08899-ND/5814304
6	Fan	Ebay	BA10033B12G	1	\$17.25	http://www.ebay.com/itm/1pc-AVC-BA10033B12G-fan-9733-12V-4-5A-4pin-M3529-CL-/1822811125087?trkaid=sp2349526,m2548,h4275
7	Sharp Distance Sensors	Digikey	425-2819-ND	6	\$63	https://www.digikey.com/product-detail/en/sharp-microelectronics/GP2Y0AA1SK0F/425-2819-ND/3884447
8	1300mAh 3s 25c Lipo Battery	Hobbyking	ZC.1300.3S.25	1	\$11	https://hobbyking.com/en_us/zipoy-compact-1300mah-3s-25c-lipo-pack.html
9	Driver Module	Spikenzlabs	CK-1202	1	\$5	http://www.spikenzlabs.com/Catalog/index.php?main_page=product_info&products_id=1152
10	Dual H-Bridge Motor controller	Robot Shop	RB-Ita-141	1	\$7.88	http://www.robotshop.com/en/298-dual-h-bridge-dc-motor-controller.html
11	22awg stranded wire	Spark Fun	11375	1	\$16.95	https://www.sparkfun.com/products/11375
12	22awg solid core wire	Spark Fun	11367	1	\$16.95	https://www.sparkfun.com/products/11367
13	Terminal Block	Digikey	ED2561-ND	1	\$1.29	http://www.digikey.com/scripts/DkSearch/dksus.dll?Detail&ItemSeq=227801092&uq=636301359863665827
14	Heat Shrink	Adafruit	344	1	\$4.95	https://www.adafruit.com/product/344
15	3.5mm Bullet Connectors	Hobbyking	9001-AB	1	\$5.25	https://hobbyking.com/en_us/3-5mm-3-wire-bullet-connector-for-motor-5pairs-bag.html
16	Perfboard	All Electronics	PC-4	2	\$4	http://www.allelectronics.com/item/pc-4/solderable-perf-board-3-x-4-1/4/1.html?gclid=CKWNnuX46NMCFYeUlgodT48CwA#
17	Jumper Wires	Amazon	B008MRZSH8	1	\$9.99	https://www.amazon.com/Aketele-Jumper-Wires-Premium-Female/dp/B008MRZSH8
18	Pushbutton	Adafruit	1683	2	\$3.90	https://www.adafruit.com/product/1683
19	Vacuum Bags	Amazon	B009BTP176	1	\$13	https://www.amazon.com/Hoover-WindTunnel-Style-CLQTH-Vacuum/dp/B009BTP176
20	Washers	Home Depot	935807	1	\$1	http://www.homedepot.com/p/Crown-Bolt-3-16-in-Steel-Back-Up-Washer-10-Piece-41828/203624389
21	Nuts	Home Depot	254215	1	\$3.92	http://www.homedepot.com/p/Everbilt-8-32-In-Zinc-Plated-Machine-Screw-Nut-100-Piece-800252/204273373
22	Screws	Home Depot	659455	1	\$5.24	http://www.homedepot.com/p/8-32-x-2-in-Zinc-Plated-Phillips-Slotted-Truss-Head-Combo-Drive-Machine-Screw-50-Piece-801002/204274432
23	M3 Screws	Amazon	M3MIXED 100	1	\$9.18	https://www.amazon.com/Excel-Total-100-Pack-Socket-Screws/dp/B0174TTWU/ref=fpd_bxgy_469_2?_encoding=UTF8&pd_rd_r=862VXTNNJWD48GAQXNA7&pd_rd_w=SxHCL&pd_rd_wg=3X3h&psc=1&refRID=B6ZVXTNNJWD48GAQXNA7
24	M3 nuts	Amazon	a13092700ux0955	1	\$2.22	https://www.amazon.com/100Pcs-Female-Thread-Fastener-Silver/dp/B00GYS1S3U
25	Male to Male jumper wires	Amazon	32JWKZN	1	\$5.86	https://www.amazon.com/Breadboard-Jumper-Wire-75pcs-pack/dp/B0040DEI9M
26	1k Ohm resistors	Amazon	25EP5141K00	1	\$5.77	https://www.amazon.com/Projects-25EP5141K00-Ohm-Resistors-Pack/dp/B0185FC5UG
27	10k ohm potentiometer	Spark Fun	COM-09806	1	\$0.95	https://www.sparkfun.com/products/9806
Total:					\$290.72	