

## 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	Total	Link to Where to Purchase
1	Elegoo	Sparkfun	DEV-11061	1	\$14.86	\$14.86	<a href="https://www.amazon.com/Elegoo-LYS001H4ZDYCE-FLCOTRNC5MEGA-ATmega2560-ATMEGA16U2-Compatible/dp/B01H4ZDYCE/ref=1_3?ie=UTF8&amp;qid=1526672394&amp;sr=8-3&amp;keywords=elegoo+arduino+mega">https://www.amazon.com/Elegoo-LYS001H4ZDYCE-FLCOTRNC5MEGA-ATmega2560-ATMEGA16U2-Compatible/dp/B01H4ZDYCE/ref=1_3?ie=UTF8&amp;qid=1526672394&amp;sr=8-3&amp;keywords=elegoo+arduino+mega</a>
2	Adafruit Motor/Stepper/Servo Shield for Arduino v2.3 Kit	Amazon (Adafruit)		1	\$21.99	\$21.99	<a href="https://www.amazon.com/Adafruit-Motor-Stepper-Shield-Arduino/dp/B00PLU1H980/ref=1_2?ie=UTF8&amp;qid=1526666771&amp;sr=8-2&amp;keywords=Adafruit+Motor%2FStepper%2FServo+Shield">https://www.amazon.com/Adafruit-Motor-Stepper-Shield-Arduino/dp/B00PLU1H980/ref=1_2?ie=UTF8&amp;qid=1526666771&amp;sr=8-2&amp;keywords=Adafruit+Motor%2FStepper%2FServo+Shield</a>
3	Adafruit Ultimate GPS Breakout - 66 channel w/10 Hz updates [ADA746]	Amazon (Adafruit)		1	\$37.99	\$37.99	<a href="https://www.amazon.com/Adafruit-Ultimate-GPS-Breakout-channel/dp/B01H1R8BK0/ref=1_2_sspa?ie=UTF8&amp;qid=1526666893&amp;sr=1-2_spons&amp;keywords=Adafruit+Ultimate+GPS+Breakout&amp;psc=1&amp;mid=AM0J0074J587C">https://www.amazon.com/Adafruit-Ultimate-GPS-Breakout-channel/dp/B01H1R8BK0/ref=1_2_sspa?ie=UTF8&amp;qid=1526666893&amp;sr=1-2_spons&amp;keywords=Adafruit+Ultimate+GPS+Breakout&amp;psc=1&amp;mid=AM0J0074J587C</a>
4	Ultrasonic Module Distance Sensor For Arduino	Amazon (SainSmart)		3	\$5.42	\$16.26	<a href="https://www.amazon.com/gp/product/B004UJSTOE/">https://www.amazon.com/gp/product/B004UJSTOE/</a>
5	Parallax 27977 LCD Display, 16 x 2 Character, Serial Backlit Ascii Dec 32-127	Amazon (Parallax)		1	\$14.99	\$14.99	<a href="https://www.amazon.com/Parallax-27977-Display-Character-Backlit/dp/B006886118/ref=1_1?ie=UTF8&amp;qid=1526613975&amp;sr=8-1&amp;keywords=Parallax+Serial+LCD">https://www.amazon.com/Parallax-27977-Display-Character-Backlit/dp/B006886118/ref=1_1?ie=UTF8&amp;qid=1526613975&amp;sr=8-1&amp;keywords=Parallax+Serial+LCD</a>
6	Logitech PlayStation 2 Cordless Action Controller	Amazon (Logitech)		1	\$15.00	\$15.00	<a href="https://www.amazon.com/Wireless-Controller-Vibration-Gamepad-Playstation/dp/B01DX7SAKE/ref=1_1?ie=UTF8&amp;qid=1526673229&amp;sr=8-1&amp;keywords=playstation2+remote">https://www.amazon.com/Wireless-Controller-Vibration-Gamepad-Playstation/dp/B01DX7SAKE/ref=1_1?ie=UTF8&amp;qid=1526673229&amp;sr=8-1&amp;keywords=playstation2+remote</a>
7	6 pack of DC motors	Amazon		1	\$6.99	\$6.99	<a href="https://www.amazon.com/Topoxo-15000-16500RPM-Electric-Science--week-for-shipping">https://www.amazon.com/Topoxo-15000-16500RPM-Electric-Science--week-for-shipping</a>
8	Tamiya USA TAM70100 Track and Wheel Set	Amazon (Tamiya)		1	\$11.16	\$11.16	<a href="https://www.amazon.com/gp/product/B00061HHRC">https://www.amazon.com/gp/product/B00061HHRC</a>
9	Tamiya 70168 Left/Right Independent 4 Speed Double Gearbox	Amazon (Tamiya)		1	\$9.16	\$9.16	<a href="https://www.amazon.com/gp/product/B000C8F802">https://www.amazon.com/gp/product/B000C8F802</a>
10	Tamiya Universal Plate TAM70098	Amazon (Tamiya)		1	\$8.39	\$8.39	<a href="https://www.amazon.com/gp/product/B00061HHR2/">https://www.amazon.com/gp/product/B00061HHR2/</a>
11	USB-B Cable for Arduino Uno	Jameco		1	\$1.75	\$1.75	<a href="https://www.jameco.com/webapp/wcs/stores/servlet/Product_10001_10001_222608_-1">https://www.jameco.com/webapp/wcs/stores/servlet/Product_10001_10001_222608_-1</a>
12	Duracell CopperTop Alkaline Batteries (24)	Walmart		1	\$14.94	\$14.94	<a href="https://www.walmart.com/ip/Duracell-CopperTop-AA-Alkaline-Batteries-24-Count/17782635">https://www.walmart.com/ip/Duracell-CopperTop-AA-Alkaline-Batteries-24-Count/17782635</a>
13	Jumper Wires Premium 6" M/F Pack of 10	Sparkfun		3	\$3.95	\$11.85	<a href="https://www.sparkfun.com/products/9140">https://www.sparkfun.com/products/9140</a>
14	PCB's	Amazon		1	\$8.99	\$8.99	<a href="https://www.amazon.com/Faxoo-Double-Sided-Board-Prototype/dp/B01M7R5Y1R/ref=1_2_sspa?ie=UTF8&amp;qid=1526673054&amp;sr=8-2_spons&amp;keywords=pcb&amp;psc=1">https://www.amazon.com/Faxoo-Double-Sided-Board-Prototype/dp/B01M7R5Y1R/ref=1_2_sspa?ie=UTF8&amp;qid=1526673054&amp;sr=8-2_spons&amp;keywords=pcb&amp;psc=1</a>
				total		\$194.32	