

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.

#	Description	Vendor	Part Number	Qty	Unit Cost	Total Cost	Link to Where to Purchase
1	Arduino Uno Micro Controller	Amazon	B01N4LP861	1	\$16.90	\$16.90	https://www.amazon.com/RoboGiz-Compatible-ATmega328P-Microcontroller-Electronics/dp/B01N4LP861/ref=sr_1_6?keywords=arduino+uno+microcontroller&qid=1556290547&s=gateway&sr=8-6
2	Adafruit Wave Shield for Arduino	Amazon	B00XGZ2N9G	1	\$22.77	\$22.77	https://www.amazon.com/Adafruit-Wave-Shield-Arduino-Kit/dp/B00XGZ2N9G/ref=sr_1_8mmul_1?keywords=Adafruit+Wave+Shield+for+Arduino&qid=1556291117&s=gateway&sr=8-3mmul
3	16x8 1.2" LED Matrix Backpack (RGB)	Amazon	B00XGZ2N9G	2040	\$24.81	\$50.62	https://www.amazon.com/Adafruit-16x8-1-2-Matrix-Backpack/dp/B01P4Q9320/ref=sr_1_8mmul_1?keywords=Adafruit+16x8+1.2+LED+Matrix+Backpack&qid=1556291587&s=gateway&sr=8-5mmul
4	16x2 LCD Character Display w/ I2C backpack	Amazon	C008X180U15	1	\$9.99	\$9.99	https://www.amazon.com/Adafruit-HD44780-Character-Backpack/dp/B0198SE3BA/ref=sr_1_8mm_1?keywords=16x2+LCD+Character+Display+w/I2C+backpack&qid=1556291858&s=gateway&sr=8-1mm_1
5	Standard Sized Hobby Servos (4.8V/0.1V)	Amazon	FUT0M031	2	\$13.98	\$27.96	https://www.amazon.com/Futaba-FUT0M031-3300V-Standard-Servos/dp/B001H5V22z/ref=sr_1_7?keywords=hobby+servo&qid=1556292506&s=gateway&sr=8-9
6	Pan Tilt Servo Brackets (NOTE: comes in 2 pack, only 1 needed)	Amazon	B07HQB95YV	1	\$11.99	\$11.99	https://www.amazon.com/Bolton-Servos-Bracket-Service-Compatible/dp/B07HQB95YV/ref=sr_1_7?keywords=Pan+Tilt+Servo+Brackets&qid=1558293006&s=gateway&sr=8-4
7	HC-SR04 Ultrasonic Sensor	Amazon	EL-SM-001	1	\$6.98	\$6.98	https://www.amazon.com/Elegoo-HC-SR04-Ultrasonic-Distance-Measuring/dp/B01C0SN706/ref=sr_1_7?keywords=HC-SR04+Ultrasonic+Sensor&qid=1558293205&s=gateway&sr=8-5
8	1 Watt 8 Ohm Small Speaker (NOTE: comes in 2 pack, only 1 needed)	Amazon	EK1822	1	\$6.53	\$6.53	https://www.amazon.com/Gufun-Speaker-Loudspeaker-Arduino-EK1822/dp/B01W7588D7/ref=sr_1_2_spa?keywords=speaker+arduino+1&qid=1558293376&s=gateway&sr=8-2_spa&page=1
9	Rechargeable Power Bank	Amazon	A1109G11	1	\$17.99	\$17.99	https://www.amazon.com/Anker-PowerCore-Ultra-Capacity-High-Speed-Charging/dp/B01CUIE7C8/ref=sr_1_3?ghis=17&HRLTQ3MGHSC&keywords=charger&qid=1560045284&s=gateway&jsref=ipclick+ch&jsCape%3C%3C194&sr=8-3
10	SG90 9G Micro Servos (NOTE: comes in 4 pack, only need 2)	Amazon	B07MLR1498	1	\$9.99	\$9.99	https://www.amazon.com/Micro-Servos-Helicopter-Airplane-Controller/dp/B07MLR1498/ref=sr_1_1?keywords=SG90+9G+Micro+Servos&qid=1560046398&s=gateway&sr=8-1
11	USB Power Wall Adapter	Amazon	HSACCUS1B1	1	\$6.99	\$6.99	https://www.amazon.com/Certified-Charging-Universal-Portable-Adapter/dp/B017XGM41F/ref=sr_1_5?keywords=USB+Power+Adapter&qid=1560046606&s=gateway&sr=8-5
12	40p 200mm Male-to-Female Dupont Cables and 40p 200mm Female-to-Male Dupont Cables	Amazon	EL-CP-004	2	\$6.98	\$13.96	https://www.amazon.com/Elegoo-EL-CP-004-Multi-colored-Readout-Adapter/dp/B01E7VC778/ref=sr_1_1_spa?keywords=200mm+Male+to+Female+Dupont+Cables&qid=1560488356&s=gateway&sr=8-1_spa&page=1
13	8gb microsd class 4 flash memory card sda4Rgbrt	Amazon	SDC4RG8BT	1	\$3.38	\$3.38	https://www.amazon.com/Kingston-microSD-CLASS4-SG8BT/dp/B0020K701F/ref=sr_1_1?keywords=8gb+microsd+class+4+flash+memory+card+sd&qid=1560049414&s=gateway&sr=8-1
14	Arduino Wireless Bluetooth Transceiver Module Slave 4 Pin Serial	Amazon	4233973787	1	\$7.99	\$7.99	https://www.amazon.com/Whitaker-Bluetooth-Transceiver-Module-Slave-4-Pin-Serial/dp/B017383044/ref=sr_1_1?keywords=Arduino+Bluetooth+Transceiver+Module+Slave+4+Pin+Serial&qid=1560047664&s=gateway&sr=8-1
15	3Pin 3.3V 100mA 500mA	Amazon	JPCB-MBB-400	1	\$7.99	\$7.99	https://www.amazon.com/BoardGuard-Solderless-Prototype-Universal-Raspberry/dp/B017F8H1N0/ref=sr_1_6?keywords=BoardGuard+2+connector&qid=1560047268&s=gateway&sr=8-1
16	ABS Filament	Amazon	US-ABS-white	1	\$14.99	\$14.99	https://www.amazon.com/ABS-Filaments-Printer-SUNLU-Filament-Dimensional/dp/B01MSW9KMA/ref=sr_1_2_spa?query=1UD0RXVWCC&1&s=keywords=abs+filament&qid=1560047852&s=gateway&jsref