

Blue Stamp Engineering

Parts List

http://blog.tkjelectronics.dk/2012/03/the-balancing-ro

Zachary Buttenwieser

Description	Full Name	Link	Units	Cost Per Unit		Amount
Motors with built in encoders	29:1 Metal Gearmotor 37Dx52L mm with 64 CPR Encoder	http://www.pololu.com/catalog/product/1443	2	\$	39.95	\$ 79.90
Motor brackets	Pololu 37D mm Metal Gearmotor Bracket Pair	http://www.pololu.com/catalog/product/1084	2		7.95	\$ 15.90
Motor Controller	Dual VNH2SP30 Motor Driver Carrier MD03A	http://www.pololu.com/catalog/product/708	1		59.95	\$ 59.95
BaneBots Wheels	BaneBots Wheel, 4-7 / 8" x 0.8", 1 / 2" Hex Mount, 50A, Black / Blue	http://www.robotshop.com/eu/banebots-08in-5in-hex-	2		7.78	\$ 15.56
Wheel Hubs	BaneBots Hub, Hex, Series 40, Set Screw, 6mm Bore, 2 Wide	http://www.robotshop.com/eu/hex-hub-s40-6mm-2wi	2		5.15	\$ 10.30
IMU	IMU Digital Combo Board - 6 Degrees of Freedom ITG3200/ADXL345	http://www.sparkfun.com/products/10121	1		64.95	\$ 64.95
mbed Microcontroller	mbed NXP LPC1768	http://www.sparkfun.com/products/9564	1		59.95	\$ 59.95
mbed Breakout Board	mbed Peripheral Board - Kit	http://shop.tkjelectronics.dk/product_info.php?cPath=;	1		41.88	\$ 41.88
Arduino	Arduino Uno REV 3	http://www.radioshack.com/product/index.jsp?produc	1		34.99	\$ 34.99
USB Sheild	USB Host Shield 2.0 For Arduino	http://www.circuitsathome.com/products-page/ardu	1		25.00	\$ 25.00
Bluetooth Dongle			1	NA		NA
PS3 Controller	Sony - DualShock 3 Wireless Controller for PlayStation 3	http://www.bestbuy.com/site/Sony+-+DualShock+3+W	1		54.99	\$ 54.99
Batteries	NIMH Battery Pack: 12V 3800 mAh (Trail-Tech Female plug) for Bike Light with Fast S	http://www.batteryspace.com/nimhbatterypack12v38C	2		69.95	\$ 139.90
Male Female connectors	5 pairs Male Female white Standard Tamiya connector plug RC Airsoft battery pack	http://www.ebay.com/itm/5-pairs-Male-Female-white-	1		3.95	\$ 3.95
Xbee Module	XBee 802.15.4 - 1mW Chip Antenna	http://www.watterott.com/en/Digi-XBee-1mW-Chip-Ar	2		30.52	\$ 61.04
Xbee Adaptor	XBee Adapter kit - v1.1	http://www.watterott.com/de/XBee-Adapter-kit-v11	2		12.08	\$ 24.16
Jumper Wire	Jumper wire pack, 75pcs	http://shop.tkjelectronics.dk/product_info.php?cPath=;	1		12.50	\$ 12.50
Breadboard	Breadboard Small Self-Adhesive	http://www.sparkfun.com/products/137	2		5.95	\$ 11.90
Voltage Regulator	KA7805ETU Fairchild Semiconductor	http://www.digikey.com/product-detail/en/KA7805ETU	2		0.65	\$ 1.30
					Invoice Subtotal	\$ 718.12
					Tax Rate	8.25%
					Sales Tax	59.24
					Other	
					TOTAL	\$ 777.36