

BASE HARDWARE(MIN)

Item	QTY	Cost	source
Raspberry Pi 2	1	35	35
Wifi Adapter	1	10	10
BLE 4.0 Adapter	1	10	10
A-Star 32U4 Robot Controller LV with Raspberry Pi Bridge	1	32.95	32.95 Pololu
Chassis Laser Cut	1	0	0
Motors with built in wheel encoders	2	0	0
Pololu Wheel 60x8mm Pair - Blue	1	7.95	7.95 Pololu
Pololu Universal Aluminum Mounting Hub for 4mm Shaft, #4-40 Holes (2-Pack)	1	6.95	6.95 Pololu
Pololu Ball Caster with TBD" Plastic Ball	2	1.99	3.98 Pololu
Universal Smart Charger for Li-Ion battery Packs 3.7V - 14.8V 1-4 cells		23.95	0 Tenergy
7.4V 5200mAh Side By Side Li-Ion Battery Pack		42.95	0 Tenergy
7.4V 2200mAh Battery Pack		21.95	0 Tenergy

OPT SENSOR**LINE SENSOR IDEAS**

QTR-3A Reflectance Sensor Array		4.95	0 Pololu
QTR-1A Reflectance Sensor (2-Pack)		4.25	0 Pololu
QTR-8A Reflectance Sensor Array	0	9.95	0 Pololu

Optical Range Finders

GP2Y0A21 Sharp distance sensor (26Hz) 4" to 32" (10 cm to 80 cm)		9.95	0 Pololu
GP2Y0A41SK0F Sharp analog distance sensor (60) 1.5" to 12" (4 cm to 30 cm)		9.95	0 Pololu
GP2Y0A60SZ distance sensor(60) 4" to 60" (10 cm to 150 cm)	0	11.95	0 Pololu

Sonar Range Finders

Parallax PING))) Ultrasonic Sensor		29.99	0
HC-SR04 Ultrasonic Distance Sensor Module		2.99	0

IMU (Accelerometer and Gyro)

SparkFun Triple Axis Accelerometer and Gyro Breakout - MPU-6050		39.95	0 SparkFun
SparkFun 9 Degrees of Freedom IMU Breakout - LSM9DS1		24.95	0 SparkFun
SparkFun 6 Degrees of Freedom Breakout - LSM6DS3		19.95	0 SparkFun
MPU-6050 3 Axis gyroscope + accelerometer module		4.29	0

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