## BASE HARDWARE(MIN)

BASE HARDWARE(IMIN)					
Item	QTY	C	ost		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	34.95	69.9	
Metal Gearmotor Bracket Pair		1	7.45	7.45	
Pololu Wheel 60×8mm 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
Battery Power					
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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