

Role	Part	Description	Specs	Link
Brain	Arduino Uno	A microcontroller board that is used for basic programming features and is programmed using the Arduino IDE, which supports the C/C++ language.	Voltage: 5V Input Volt: 7-12V Digital I/O pins: 14 Analog Input Pins: 6 Clock Speed: 16 MHz Memory: 32 KB Flash, 2 KB SRAM, 1 KB EEPROM Connectivity: USB connection, ICSP header, power jack Dimensions: 68.6 mm x 63.4 mm; 25g	N/A
Sensor	MPU-6050	A MEMS (micro electro-mechanical system) that combines a 3-axis accelerometer and 3-axis gyroscope. It is used to measure acceleration, velocity, orientation, displacement and other motion-related parameters.	Angular Velocity Range: 250-2000 degrees/sec Com Method: IIC communication Power Supply: 3-5 V Material: PCB Acceleration Range: 2-16g Dimensions: 4mm x 4mm x 0.9mm	EPLZON 1pcs MPU-6050 GY-521 MPU6050 3 Axis Accelerometer Module 6 DOF Gyroscope Sensor Module 16 Bit AD Converter Data Output IIC I2C for Arduino: Amazon.com: Industrial & Scientific
Motor	DC motor-12V	An electric motor that produces a rotation through the interaction	Speed: 12000 RPM Voltage: 12V HorsePower: 18000 Watts	AUTOTOOLHOME 6-12V Mini DC Motor High Torque

		between a magnetic field and an electric current.	Shaft Diameter: 2.3mm Dimensions: 6.6cm ?	Gear for Traxxas R/C and Power Wheels PCB DIY Electric Drill - Amazon.com
Driver	L298N	Drives and controls the DC motor.	Supply Voltage: 46V DC current: <2A Operating mode: H-bridge driver Logic Volt: 5V Max power: 25 Watts Dimensions: 43mm x 43mm x 27mm	Amazon.com: WWZMDiB 2 Pcs L298N Motor Driver Controller Board DC Dual H Bridge Module for Arduino Raspberry Pi Stepper Motor (2 Pcs, L298N) : Electronics
Power	2S LiPo battery	A rechargeable battery that produces a high output current, has a stable voltage, and doesn't weigh a lot meant to supply power to the system.	Voltage: 7.4 V Capacity: 2000 mAh Dimensions: 74x35x18mm; 86g	Amazon.com: AMZZN 7.4V 2000mAh 35C 2S Lipo Battery with XT60 Plug and 2-in-1 Charger for RC Cars, Trucks, RC Ships, RC Drones, Quadcopter Helicopters, FPV UAV Batteries (2PCS Battery+2-in-1 Charger) : Toys & Games