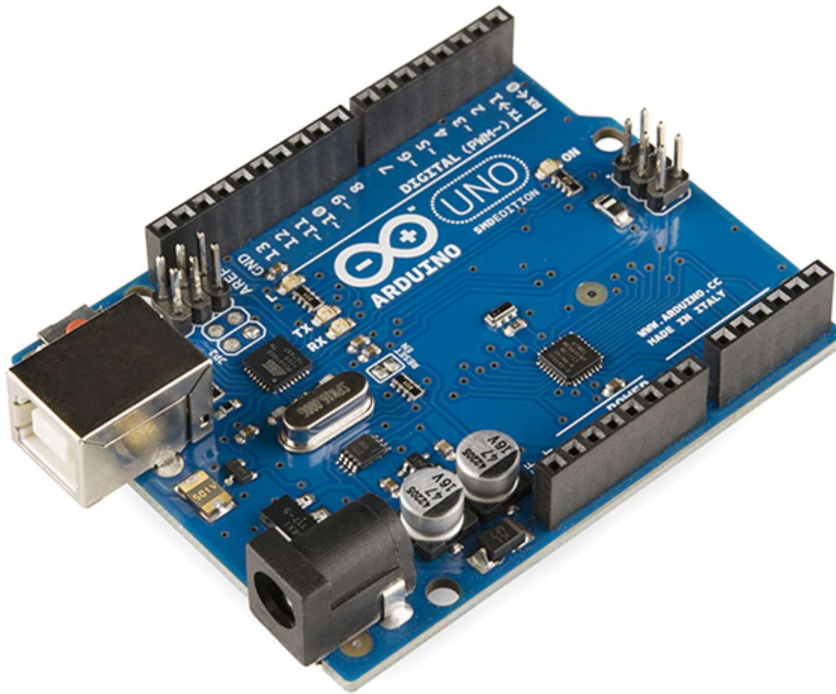


Components (List of components and description)

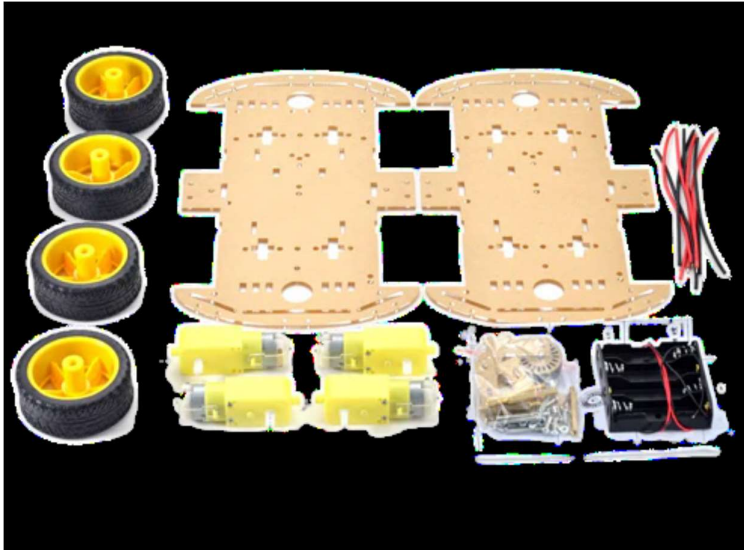
Arduino Uno:-

The Arduino Uno is an open-source microcontroller board based on the Microchip ATmega328P microcontroller and developed by Arduino.cc and initially released in 2010. The board is equipped with sets of digital and analog input/output pins that may be interfaced to various expansion boards and other circuits.



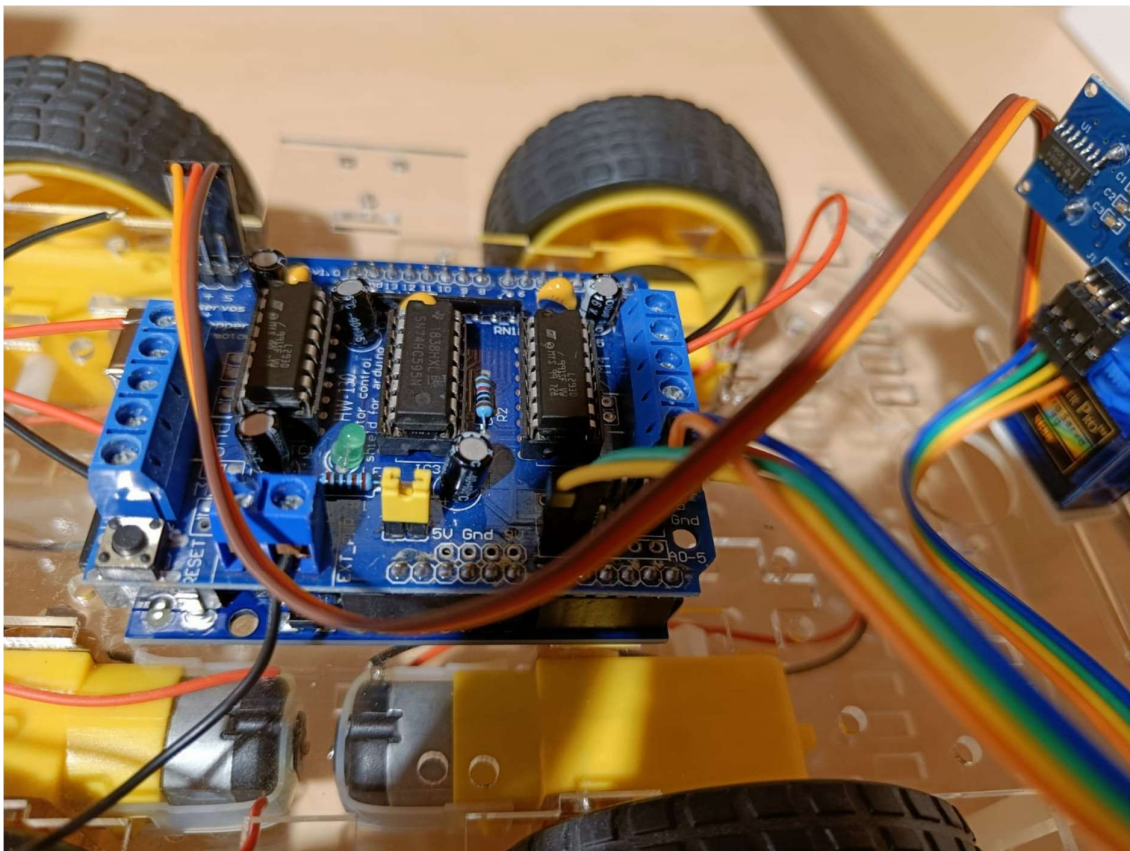
4WD Kit:-

A kit consisting of two acrylic sheets which are insulators so they act as optimal bases for our components. It has 4 durable rubber wheels, 4 dc motors and a 7.4V Lithium ion battery pack



L293D Motor Driver Shield

A motor driver shield makes it easier to plug in motors into the arduino and protects the main chip from getting burnt. It has a motor driver chip which is responsible for controlling the motors.

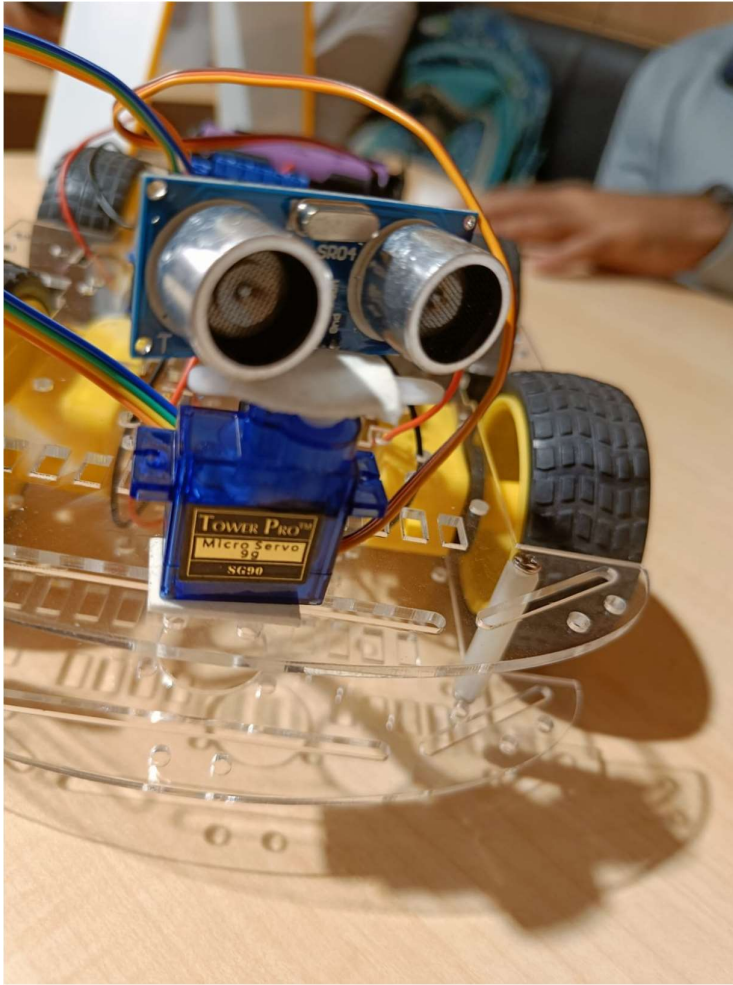


HC-SR04 Ultrasonic sensor

This is the star component. It sends ultrasonic waves and reads the reflected waves to find out obstacles and avoid them.

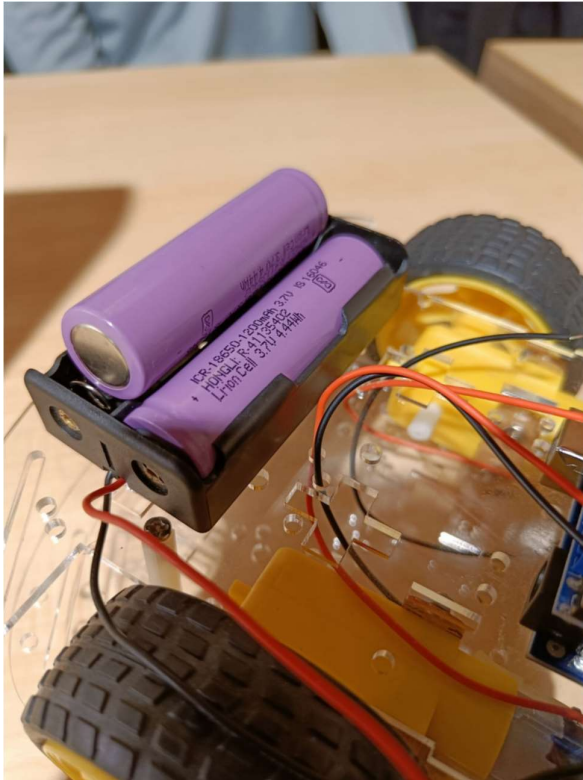
Servo Motor

Motor having an arm which can be rotated in specific directions according to our need. The ultrasound sensor is mounted on this in order to increase its range of detection.



.18650 Lithium ion batteries and battery pack

Rechargeable and heavy duty batteries. One battery has 1200 maH storage and gives an output of 3.4 V



**Jumper wires(male-male, female-female, male-female configurations)
Used to connect all components into the motor driver shield.**

