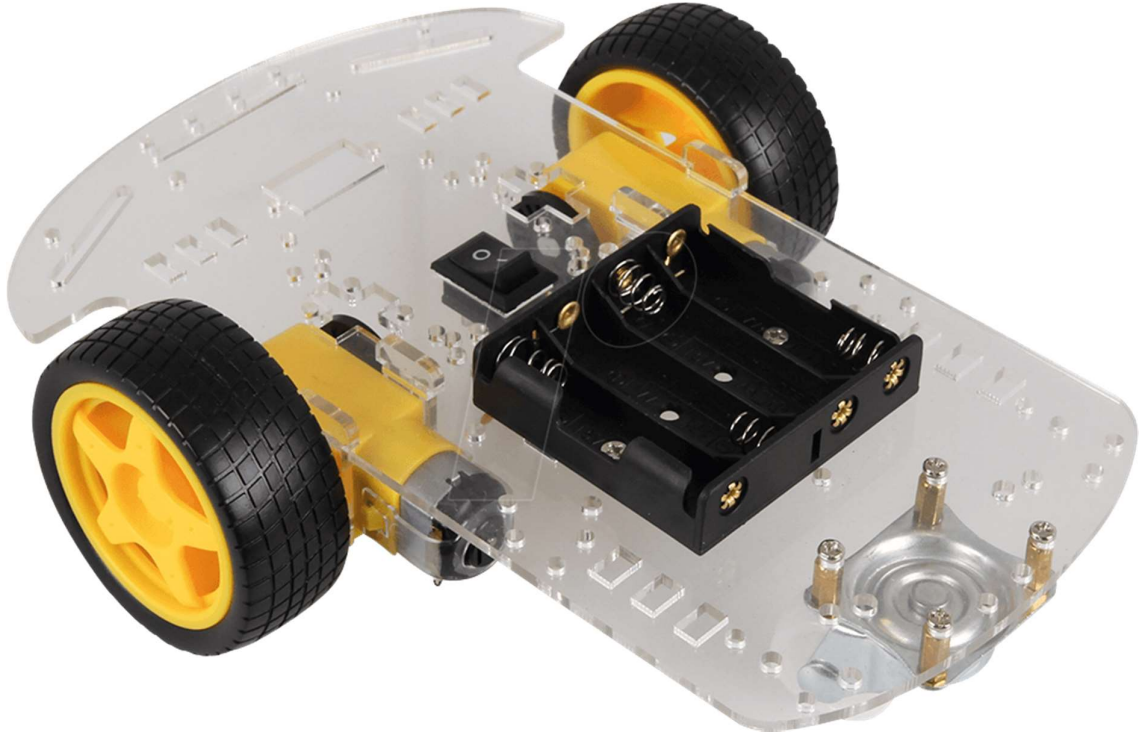


Mechanical Aspects

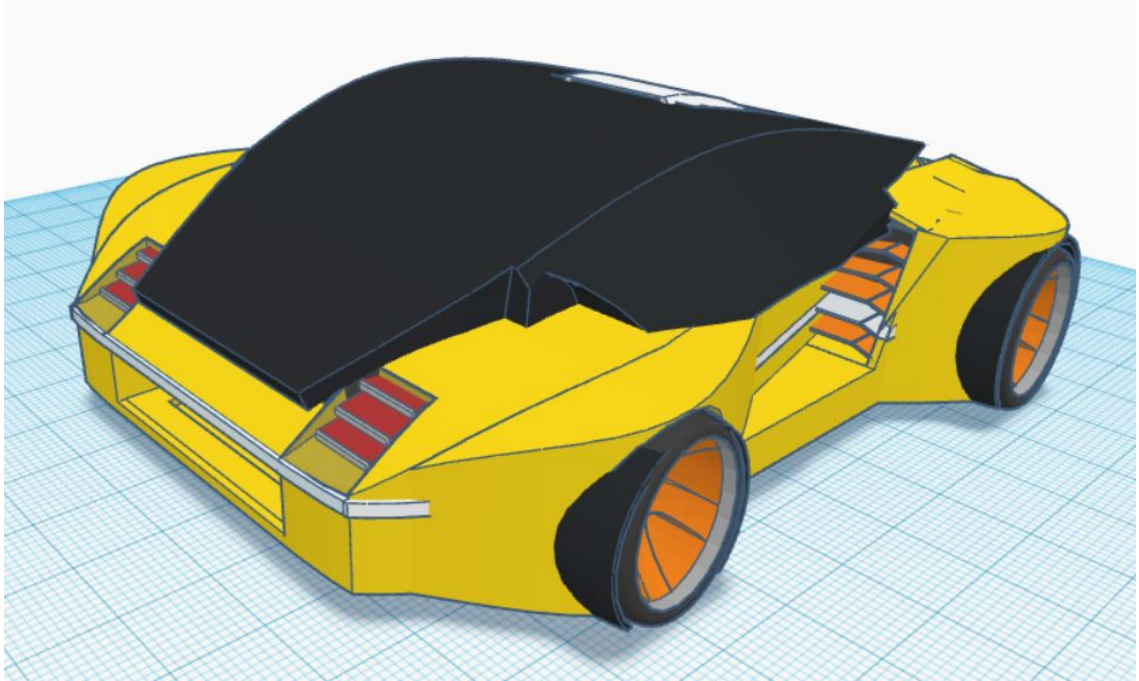
- We were given the following chassis and motors as a disassembled kit. After the complete assembly, electrical components were mounted on it.



List:

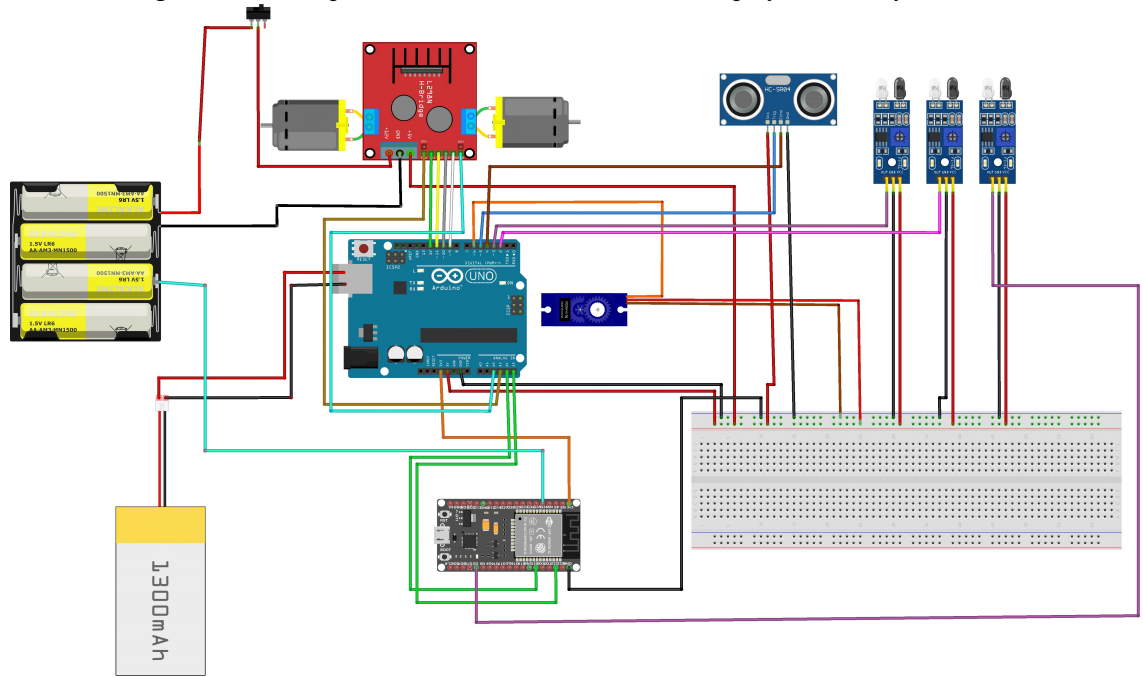
- 1) Chassis
- 2) 2 DC Motors
- 3) 2 wheels
- 4) 1 Castor
- 5) 4AA Battery holder
- 6) Switch Button
- 7) Motor mounts and screws

- Following is the expected cover and shape of the Mower:



Electrical Aspects

- The following electrical components is added to the bot in the displayed circuitry fashion:



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List:

- 1) L298N Motor driver
- 2) 3 IR Sensors
- 3) 1 Ultrasonic Sensor
- 4) 1 ESP32
- 5) 1 Arduino Uno
- 6) 1 Servo Motor
- 7) Breadboard and wires

Software Aspects

- ESP32 works on Micropython and Arduino Uno works on C++ based Arduino code.
- As Python programs are flexible, various Time and Weather APIs are used for syncing time and weather from the Internet.
- For push notifications, Pushbullet app on Android is used, which receives any activity triggered by Webhooks API.