COMPONENTS REQUIRED:

- Battery 7.4V (3.7Vx2, ICR18650)
- Battery Holder
- Switch
- Arduino Uno
- 2x IR Sensor
- US Sensor HC-SR04+Holder
- SG90 Mini Servo
- L298 motor Driver 4*wheel /L293D motor Driver 2*wheel
- Solderless Breadboard

USE FOR OBSTACLE DETECTION AND AVOIDING

DIMENSIONS:

Length:

The length of the car can vary depending on the size of the components used, but a common length for a line following car is around 10-12 inches.

Width:

The width of the car should be wide enough to accommodate the components such as the motors, wheels, battery and circuit board. A width of around 5-6 inches cm should be sufficient.

Height:

The height of the car should be low enough to ensure stability and prevent it from tipping over. A height of around 4-5 inches should be adequate.

Wheel diameter:

Smaller diameter wheels of around 4-6 cm can be used.

Ground clearance:

The distance between the bottom of the car and the ground should be enough to prevent the car from hitting obstacles. A ground clearance of around 1-2 cm is recommended.

BASIC DIAGRAM: