ECOino

A Bluetooth Controlled Arduino Car

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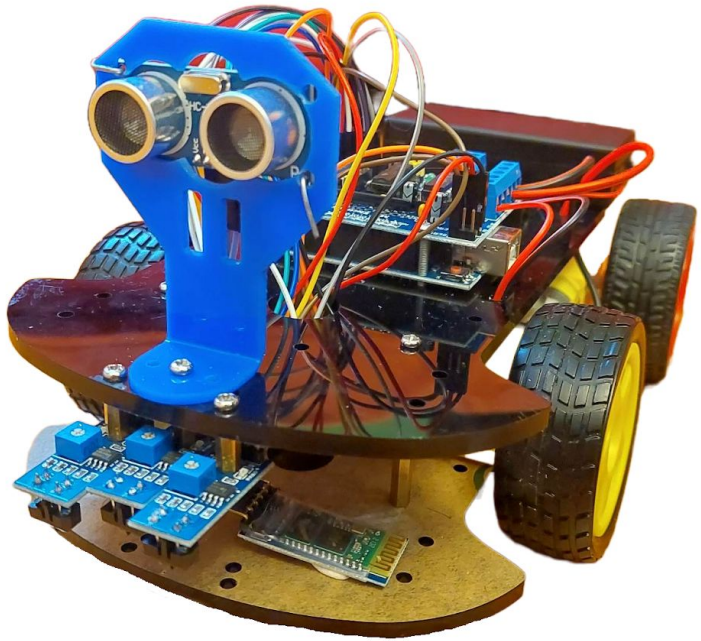
Functionality

- Remote Control
- Obstacle avoidance
- Line following

All controlled through a **custom** Android app!



Eco Friendly

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Controlled from Phone App

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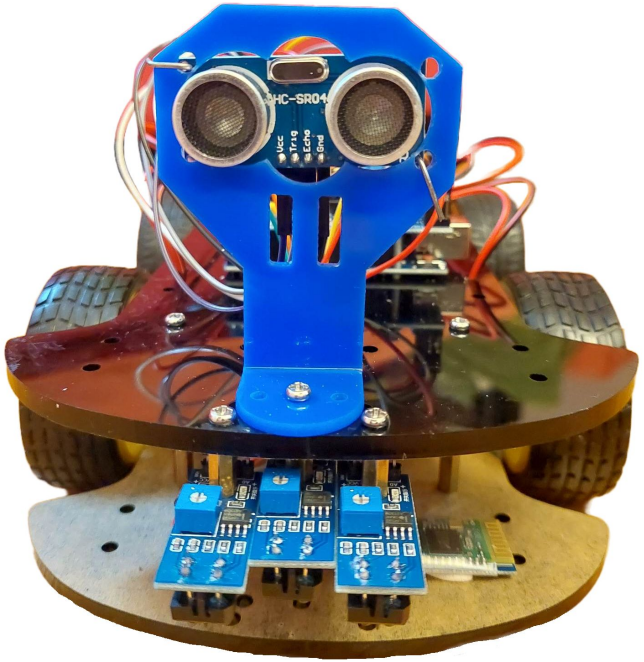
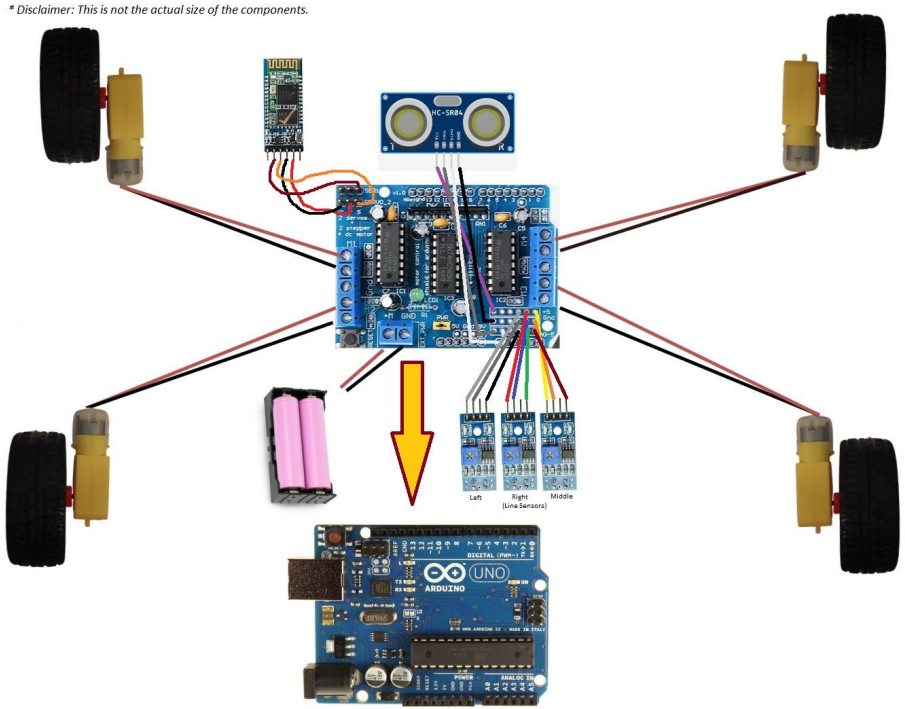
Rechargeable Batteries

Components Used

- Ultrasonic Sensor
- 3 Line Sensors
- 4 motors (with wheels)
- 2 3.7 Volt Rechargeable Batteries
- Bluetooth Module
- View full list of components here



Circuit Diagram



For a better view of the circuit diagram, please refer to this link.

Software Used

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Arduino IDE

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Android Studio

Arduino AFMotor Library

AFMotor Library contains methods for handling motors:

```
motor.setSpeed(0);
motor.run(RELEASE);
```

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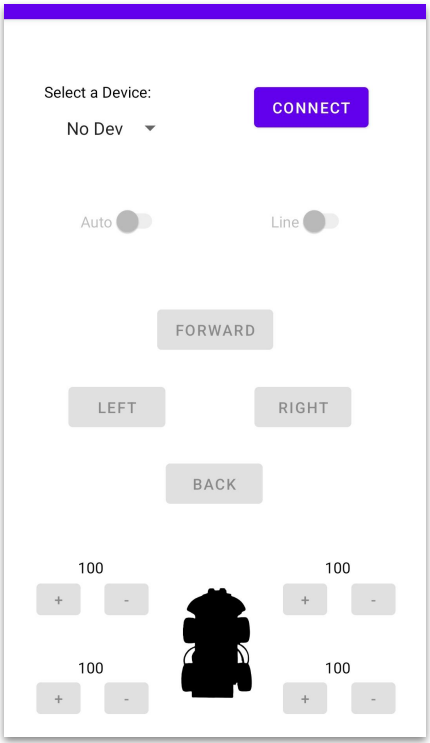
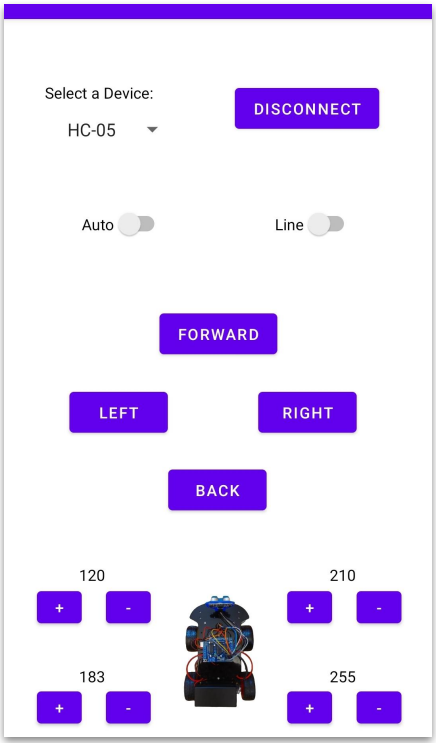
```
motor.setSpeed(100);
motor.run(FORWARD);
```

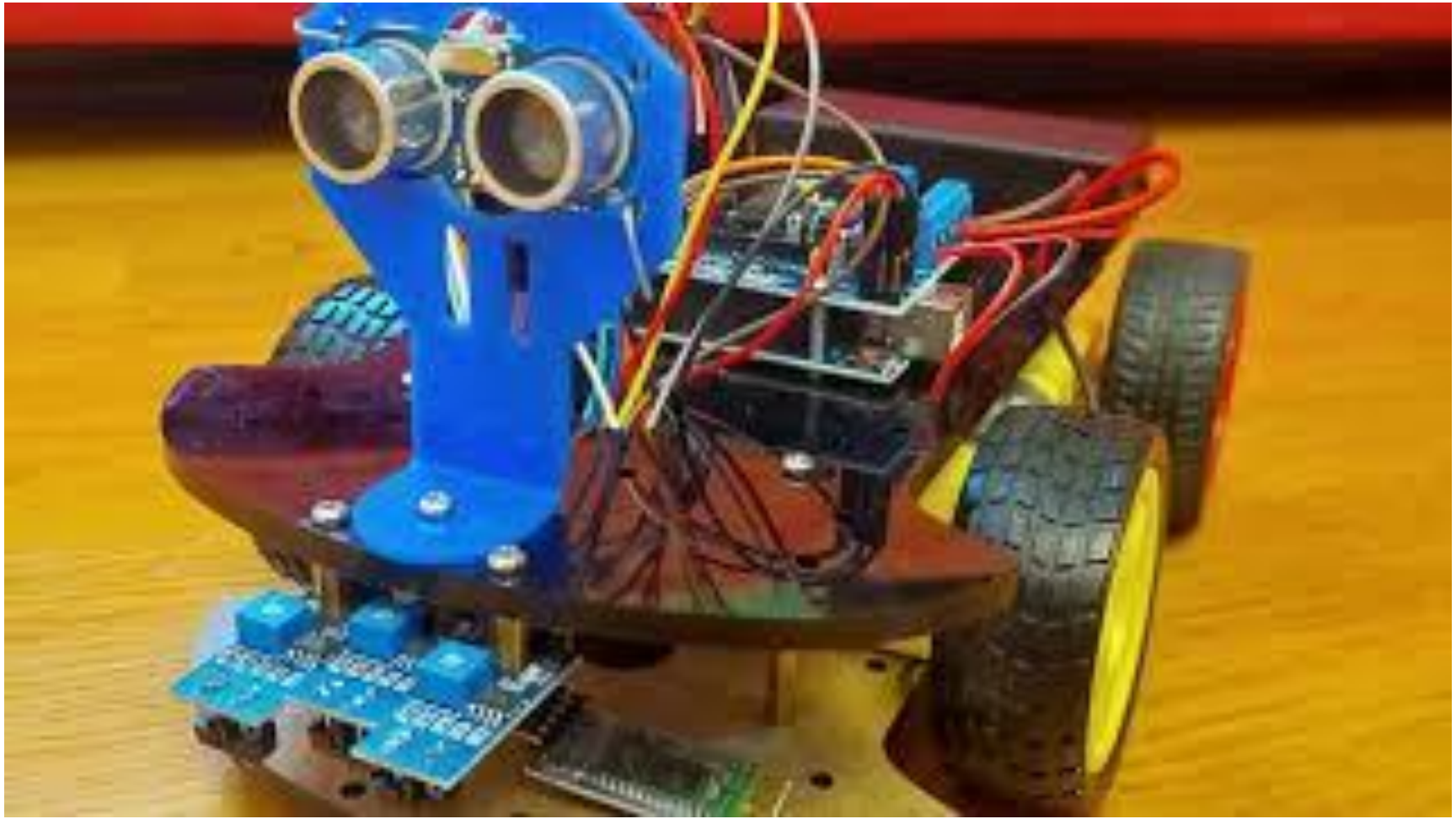
** speed range 0 – 255*

Android App



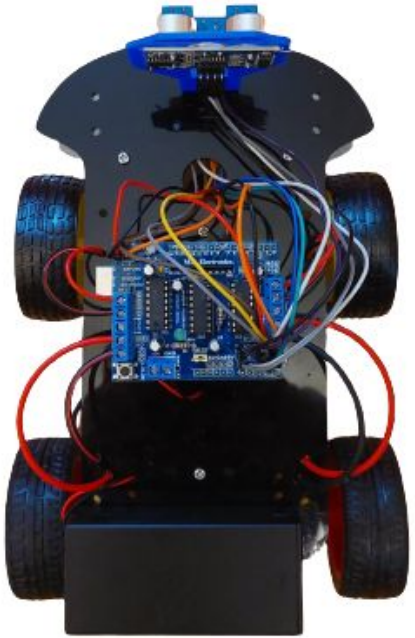


User can also control the **velocity** of each motor!



Source Code (& video link)

- Github repository
- Project Documentation
- Video showcase



Thank you for your time!