

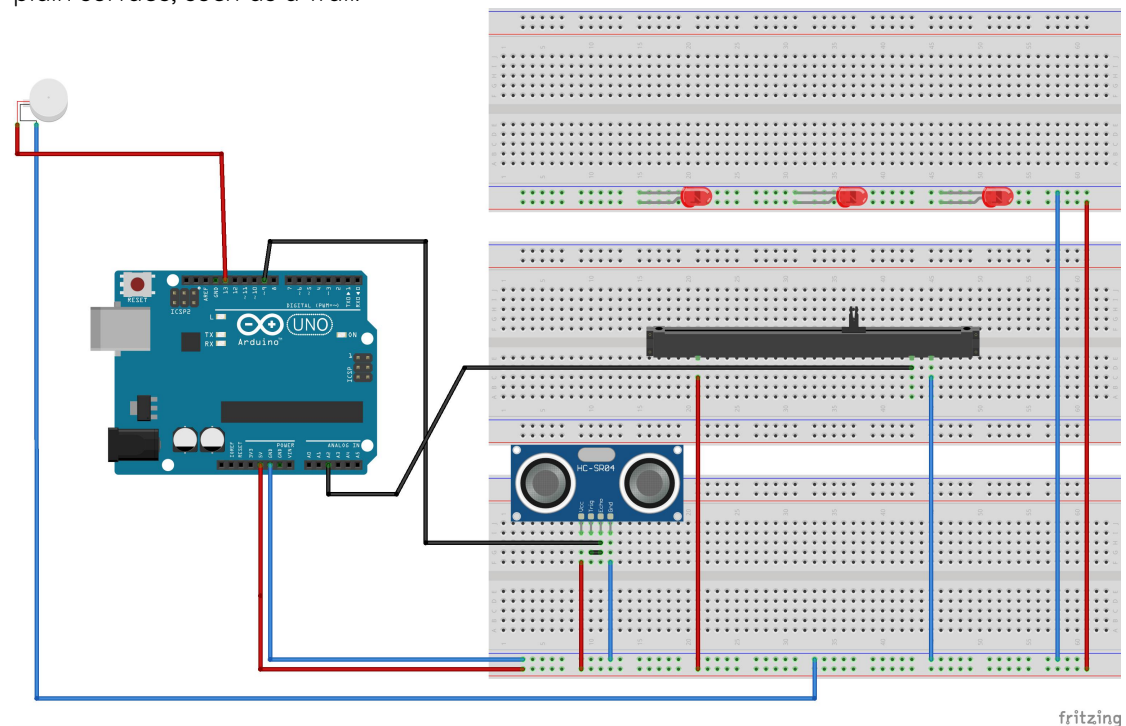
# Setup Guide

You will need:

- Arduino (built with Uno) + USB connecting cable
- Ultrasonic sensor (HC-SR04)
- Slider potentiometer (linear scaled)
- At least 1 LED
- Vibration module
- Wires
- Breadboard
- Node.js
- Arduino IDE

Set these components up in the way shown below.

Make sure the prototype is placed on even ground and that the sensor faces against a plain surface, such as a wall.



In your terminal enter the following command:

```
npm i
```

Uplad the PingFirmata.ino file to the Arduino file using the Arduino IDE. Use your terminal to change directory to where the file „read\_sockets.js“ is located and execute the program by entering

```
node read_sockets.js
```

in your terminal. In the searchbar of your browser enter

```
localhost:8080
```

You should now be able to see the project running.

Use the slider to control the speed of the vehicle and aproximate a body to the sensor to see its effects.