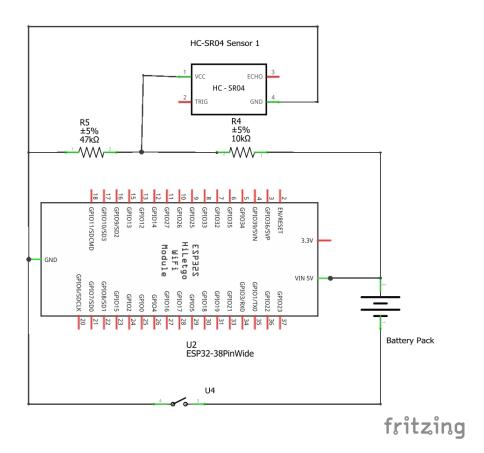
Module 10 – Adding back the ultrasonic sensor

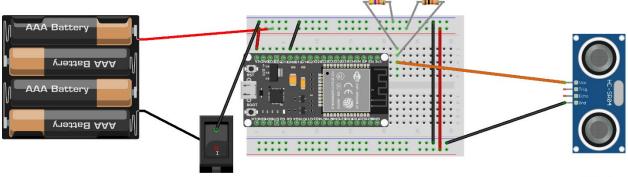
For this module you will need:

- Your car constructed from Module 9
- One 47kΩ resistor
- One 10kΩ resistor

The ultrasonic sensor 5V was disconnected in Module 9. The reason being is that whenever the robot is powered by the battery pack, only 6V (from the battery) and 3.3V (from the 3V3 pin) are available. In order to obtain a 5V power source, we are going to make another voltage divider to drop the battery pack voltage from 6V to 5V so that we can power the ultrasonic sensor from the battery pack.

For clarity, here is an depiction of just the 5V circuit for the ultrasonic sensor when the robot is powered from the battery pack. Integrate this circuit into the existing car electronics.





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