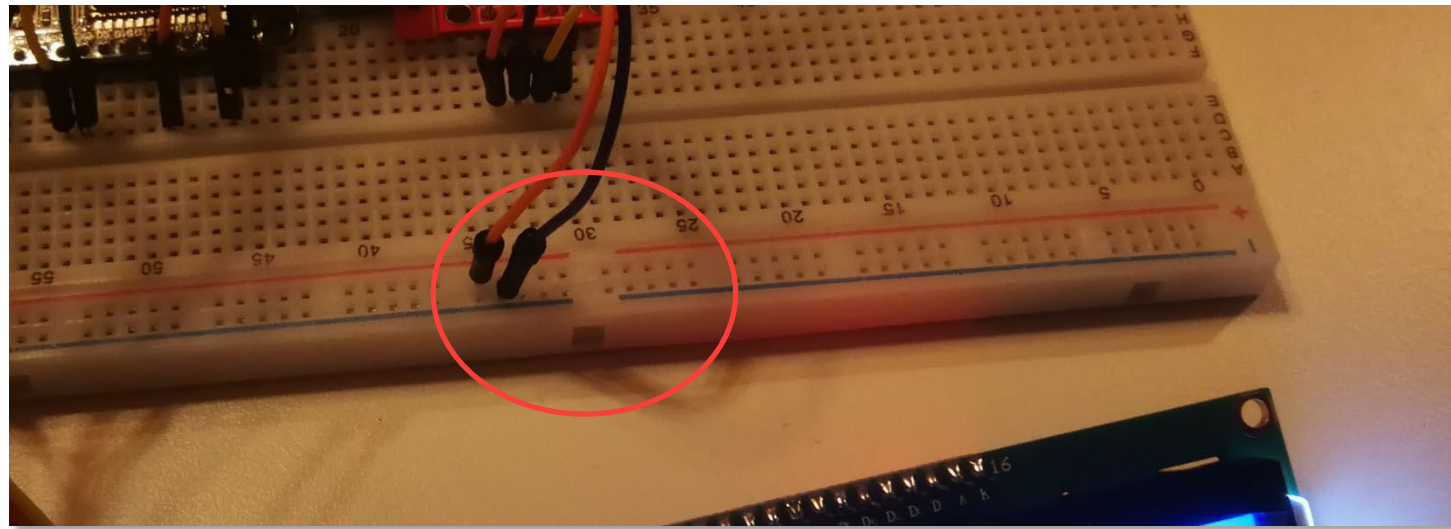


# IoT workshop II – Updated schematics

There, I fixed it ;)

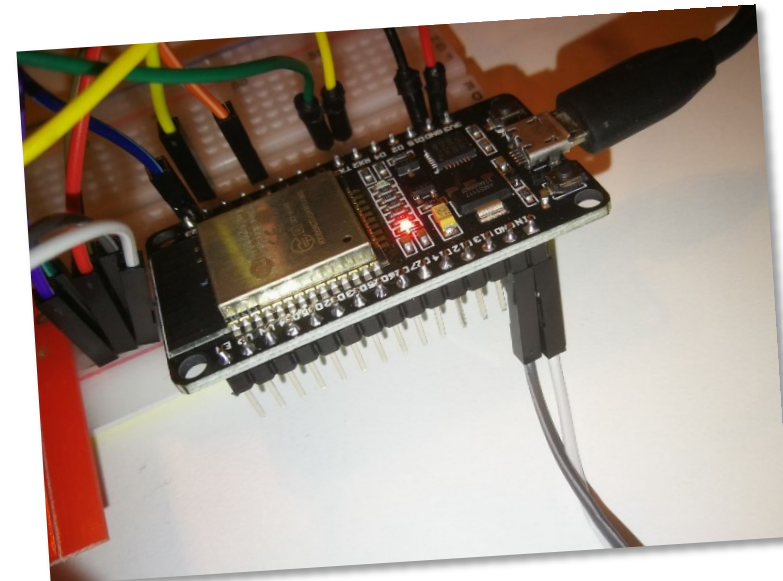
# Fixes for todays prototype

So, I took a closer look at our prototype from today and noticed what the problem was with the PIR sensor – the powerlines on the Breadboards we have received are divided in the middle meaning that the PIR sensor didn't even receive 3.3v as it was connected to the right of the middle.



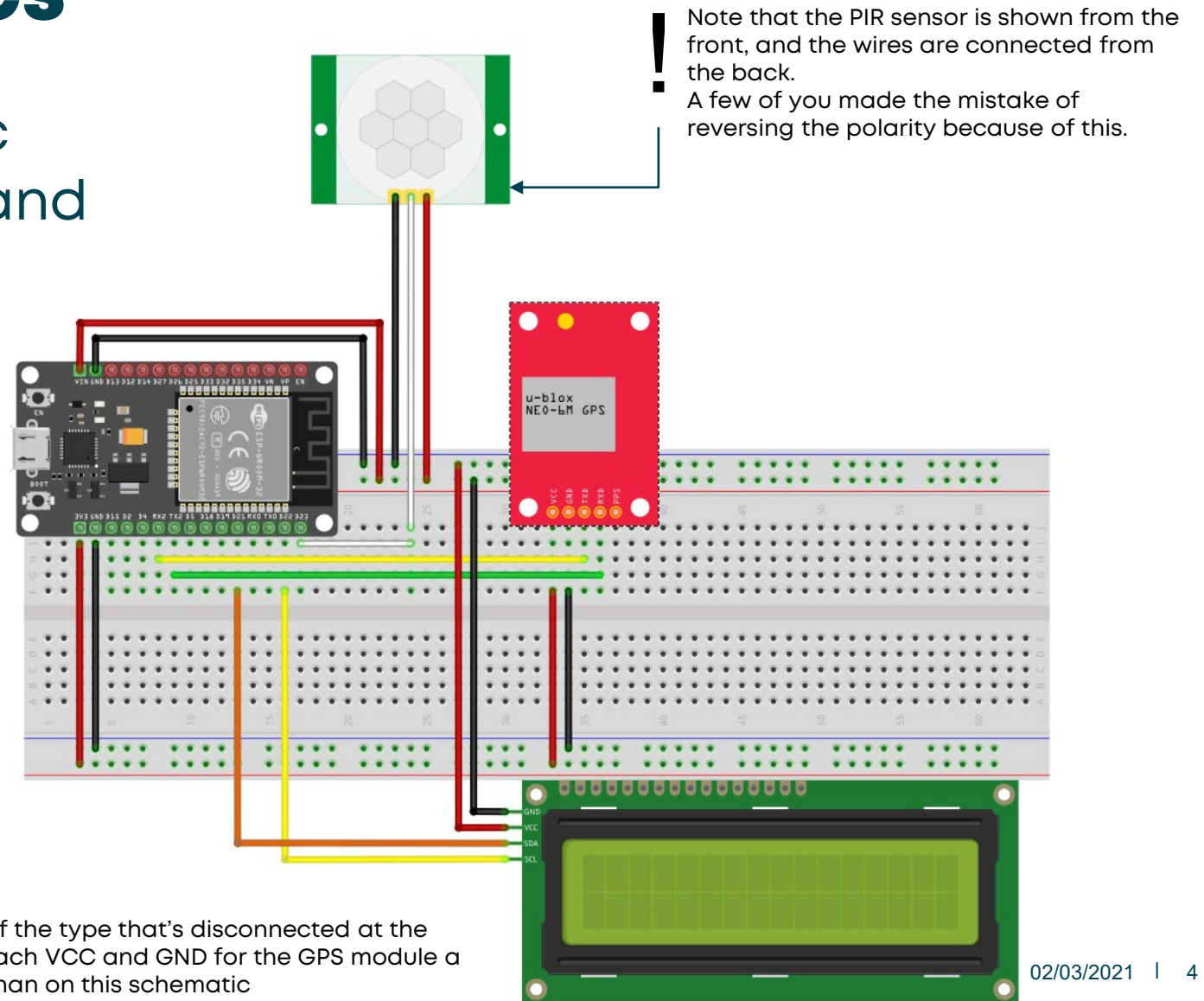
# 5 volts for PIR and LCD

In order to improve the contrast of the display and make the PIR more stable, we need 5 volts power supply – we can get that from the VIN pin of the ESP32 – VIN is the unregulated 5V input from the USB cable, which is perfect for us, and we don't need an external power supply. To connect the VIN pin (and the GND line next to it) we need two Female->Male dupont cables. It's not exactly elegant, but it does its job:



# Updated schematics

Here's the updated schematic with 5 volts in the upper lane and 3,3 volts for the GPS module in the lower lane.



# That's it...

Check the contrast of that display ;) – I look forward to add internet connectivity to our devices next week 😊

