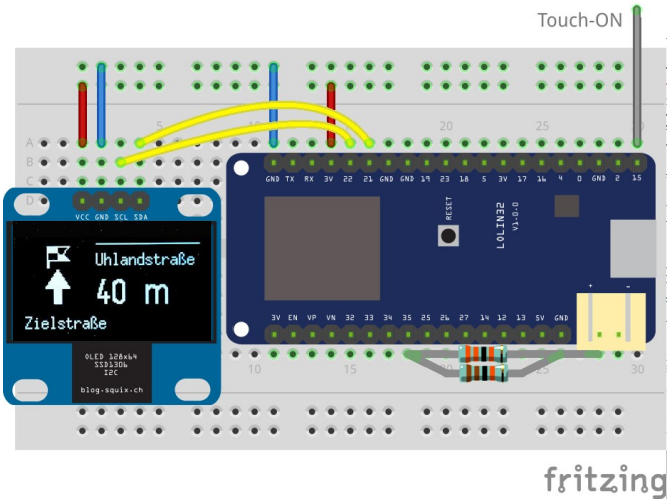
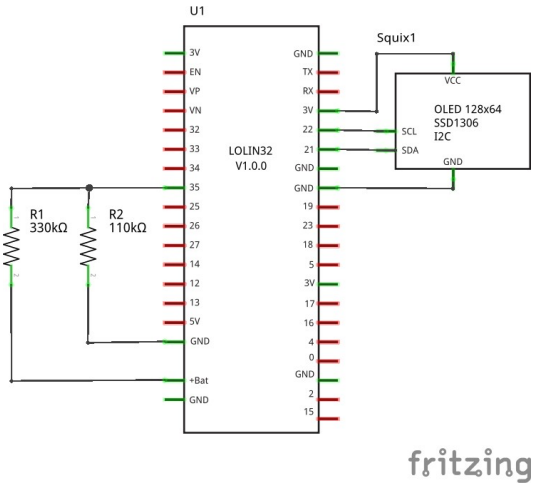
Komoot Navi Display

Small Bluetooth Low Enegergy (BLE) receiver to display the navigation information from the Komoot app (Android or iPhone).

Breadboard wiring:



Schematic:



The bar at the top right of the display indicates the remaining power of the LiPO battery.
Below this bar the previous street name is show, which is usually the current street.
At the bottom the name on the street name after the next junction is displayed.

The display orientation can be rotated by the value of the “rotation” variable in the code.

The receiver automatically turns off after 30 seconds of no BLE connection. It is switched on by touching the ping 15 to which you can connect a simple wire.

References

[1] Neil Kolban's example file: https://github.com/nkolban/ESP32_BLE_Arduino

[2] Example sketch for Polar BLE receiver from Andreas Spiess https://github.com/SensorsIot/Bluetooth-BLE-on-Arduino-IDE/blob/master/Polar_Receiver/Polar_Receiver.ino

- YouTube video #174 Bluetooth BLE on ESP32 works! Tutorial for Arduino IDE

[3] Komoot BLE Connect documentation on Github