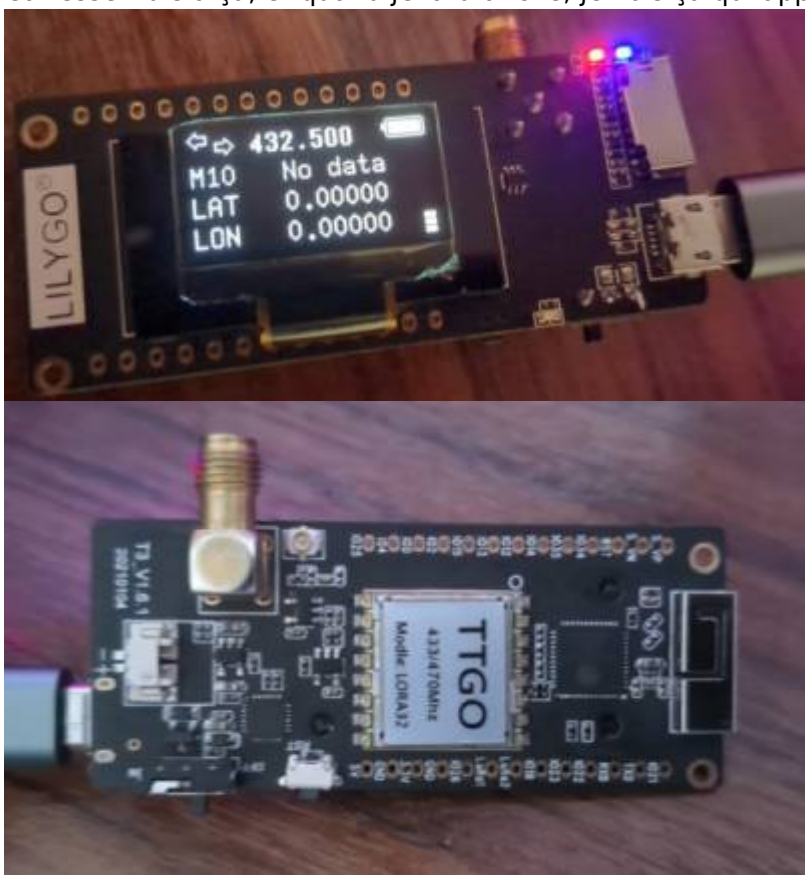
Lilygo

On va commencer à jouer avec les petites boards Lilygo.
Ne connaissant rien, je met tout en vrac ici.

Ca ressemble à ça, et quand je la branche, je vois ça qui apparait :



Programme esptool sous Linux

Ca marche en Python3, c'est pratique, et on va faire un venv pour pas péter notre Os.

Installer ESPTool

```
mkdir esptool
cd esptool
python3 -m venv
source bin/activate
pip install esptool
```

Et Zou !

```
$ esptool.py chip_id
```

```
esptool.py v4.8.1
```

```
Found 2 serial ports
Serial port /dev/ttyACM1
Connecting....
Detecting chip type... ESP32
Chip is ESP32-PICO-D4 (revision v1.0)
Features: WiFi, BT, Dual Core, 240MHz, Embedded Flash, VRef calibration in
efuse, Coding Scheme None
Crystal is 40MHz
MAC: 98:cd:ac:xx:ha:ha
Uploading stub...
Running stub...
Stub running...
Warning: ESP32 has no Chip ID. Reading MAC instead.
MAC: 98:cd:ac:f3:d1:e0
Hard resetting via RTS pin...
(esptool)
```

Dump du firmware

```
$ esptool.py flash_id
```

```
esptool.py v4.8.1
Found 2 serial ports
Serial port /dev/ttyACM1
Connecting....
Detecting chip type... Unsupported detection protocol, switching and trying
again...
Connecting.........
Detecting chip type... ESP32
Chip is ESP32-PICO-D4 (revision v1.0)
Features: WiFi, BT, Dual Core, 240MHz, Embedded Flash, VRef calibration in
efuse, Coding Scheme None
Crystal is 40MHz
MAC: 98:cd:ac:f3:d1:e0
Uploading stub...
Running stub...
Stub running...
Manufacturer: c8
Device: 4016
Detected flash size: 4MB
Flash voltage set by a strapping pin to 3.3V
Hard resetting via RTS pin...
```

Liens utiles

https://meshtastic.org/docs/getting-started/flashing-firmware/esp32/cli-script/
https://github.com/Xinyuan-LilyGO/LilyGo-LoRa-Series/tree/master