

HARDWARE - MAKEATHON UCU

- Outdoor LoRaWAN Gateway
<https://www.milesight-iot.com/lorawan/gateway/ug67/>
- Low Power DC Analyzer
<https://www.goitech.com/docs/quick-start/connect-otii-arc>
Software: Otii - www.goitech.com/download/
- UHF RFID reader
https://media.digikey.com/pdf/Data%20Sheets/ThingMagic%20PDF's/EL6e_Rev04062021_2021.pdf
- NB-IoT development board
https://www.quectel.com/wp-content/uploads/2021/09/Quectel_BG95_Series_LPWA_Specification_V1.8.pdf
Software: Python (ej. Visual Studio Code)
- GPS module
https://www.tekmodul.de/wp-content/uploads/2020/09/Quectel_LC86L_EVB_User_Guide_Preliminary_20200410.pdf
Software: Python (ej. Visual Studio Code)
- NB-IoT modules
https://www.quectel.com/wp-content/uploads/pdfupload/Quectel_UMTS%20&%20LTE_EVB_User_Guide_V2.1.pdf
https://www.quectel.com/wp-content/uploads/2021/04/Quectel_BC660K-GL-TE-B_User_Guide_V1.0.pdf
Software: Python (ej. Visual Studio Code)
- LoRa development boards
<https://pycom.io/wp-content/uploads/2017/11/lopy4Specsheet17.pdf>
<https://pycom.io/product/fipy/>
<https://docs.pycom.io/gettingstarted/> <https://pycom.io/wp-content/uploads/2017/08/fipySpecsheetAugust2017n2-1.pdf>
Software: microPython (ej. Visual Studio Code con extensión Pymark)
- LoRa shields
https://uy.mouser.com/datasheet/2/872/Pycom_Pysense_DataSheet_061620-

[1860506.pdf](#)

https://uy.mouser.com/datasheet/2/872/Pycom_Pytrack_DataSheet_061620https://uy.mouser.com/datasheet/2/872/Pycom_Pytrack_DataSheet_061620-1860509.pdf[1860509.pdf](#)

Software: microPython (ej. Visual Studio Code con extensión Pymark)

- Portable circuit laboratory
<https://digilent.com/shop/analog-discovery-2-100ms-s-usb-oscilloscope-logic-analyzer-and-variable-power-supply/>
Software: Waveforms - <https://digilent.com/shop/software/digilent-waveforms/>
- SDR receivers
<https://www.nooelec.com/store/nedr-smart-xtr.html>
<https://www.nooelec.com/store/sdr/sdr-receivers/nedr/nedr-smartee-xtr.html>
Software: GNURadio - <https://www.castle.cloud/gnuradio-for-windows/download/>
- Bluetooth 5 Evaluation Board
https://infocenter.nordicsemi.com/pdf/nRF52840_Dongle_User_Guide_v1.1.pdf