

Estação Meteorológica LoRa

Departamento de Engenharia de Eletrónica e Telecomunicações e de Computadores
Licenciatura em Engenharia Informática, Redes e Telecomunicações (LEIRT)

The Project

This IoT Weather Station was developed as part of an academic project within the engineering program, with the goal of creating an efficient and accessible solution for real-time environmental monitoring using LoRa technology.

Why is our Weather Station the best?

Our Weather Station not only collects weather data, but sends it through the LoRaWAN Network "The Things Network" to the Datacake platform, where the gathered information is presented in interactive and elegant dashboards. Additionally, our Weather Station is completely solar-powered. We integrated in our system a solar panel and a battery, that ensures that our Weather Station is powered forever, unless you put it in England :)

About the Team

We are third-year students from the Licenciatura in Engenharia Informática, Redes e Telecomunicações (LEIRT) program at the Instituto Superior de Engenharia de Lisboa (ISEL).

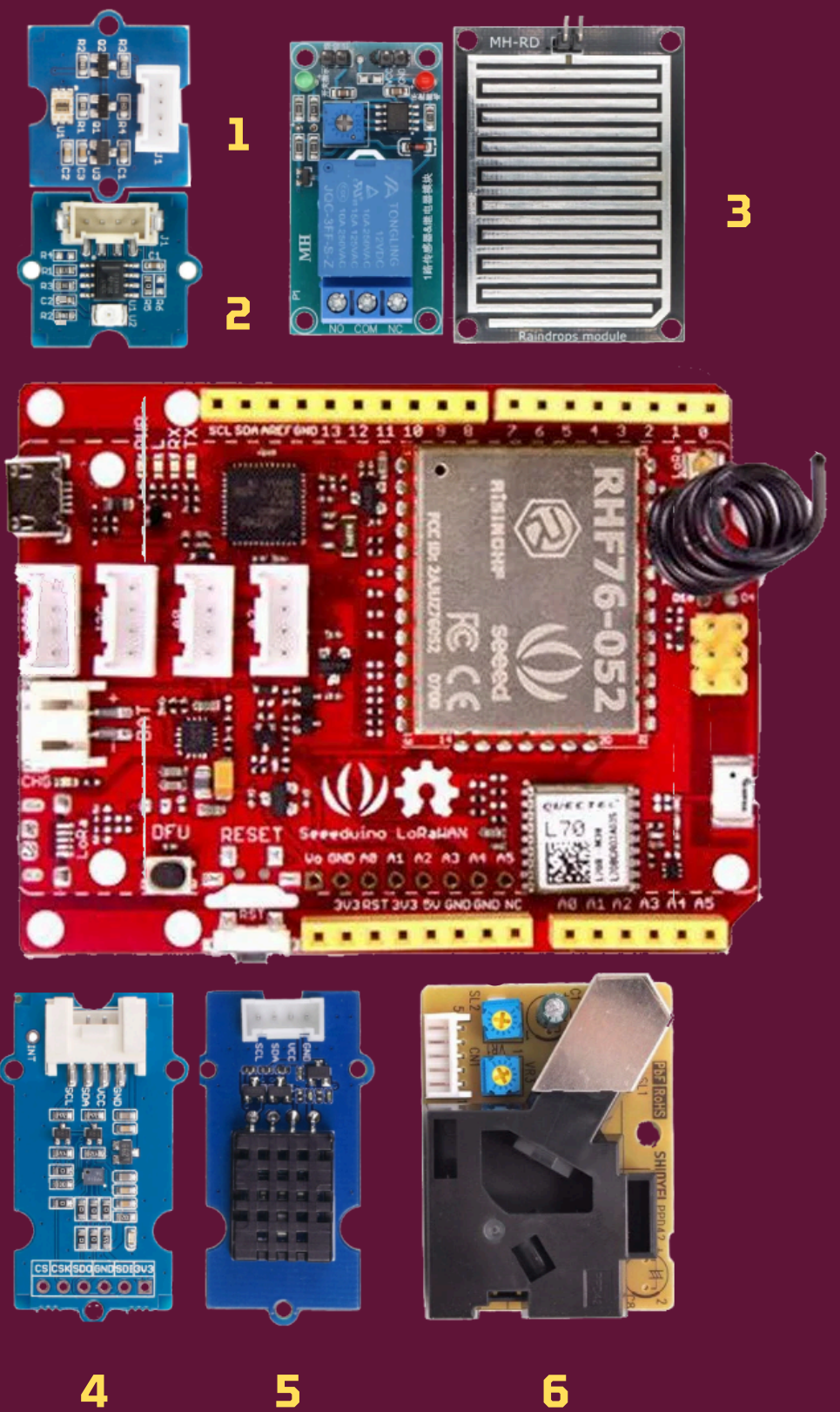
This project, "P7 - Estação Meteorológica LoRa", was proposed to us as the final project for our degree, and we gladly accepted the opportunity to apply our knowledge in a practical IoT system development. We are immensely grateful for the invaluable guidance and support provided by our supervisor, Prof. Dr. Paulo Lourenço, throughout the development of this work.



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About the Sensors

- Temperature and Humidity [5]
- Air Quality [6]
- Atmospheric Pressure [4]
- Light intensity [1]
- Ultra-Violet intensity [2]
- Rain intensity [3]



You can access our Datacake page with this QR code