

# Node

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Instructions to Build a LoRa Node

## What do you need?

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### Hardware

- Arduino UNO
- LORA SHIELD (Dragino) v1.4 - 868MHZ

### Software

- Arduino IDE (optional)
- LMIC Library

## Setup Code

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Download the code from git hub

```
git clone https://github.com/darthkali/patenpflanze
```

You can find the Code in the following Folder:

```
/src/LoRaNode_Patenpflanze/
```

#### LoRaNode\_Patenpflanze.ino

- this is the main program which must be compiled to the Arduino
  - it implements the header Files: *"config, keys and sourceCode"*

#### config.h

- here you have the PIN-Configuration

#### keys\_example.h

- here you can set the Applications Keys (from ChirpStack)
- please rename it to **keys.h**
- this file will not be uploaded to a repository, when you let the **.gitignore** in your Project.

#### sourceCode.h

- this is your Source Code
- here you can implement the logic from your Sensor

If you get an error because the LMIC Lib was not found, then you need to install the [IBM LMIC Framework](#)