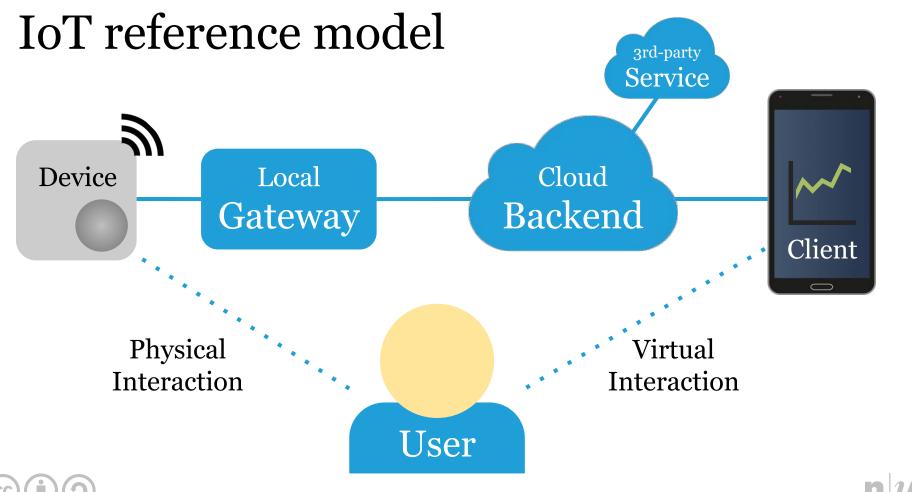
Teaching IoT with Open Hardware and GitHub Classroom

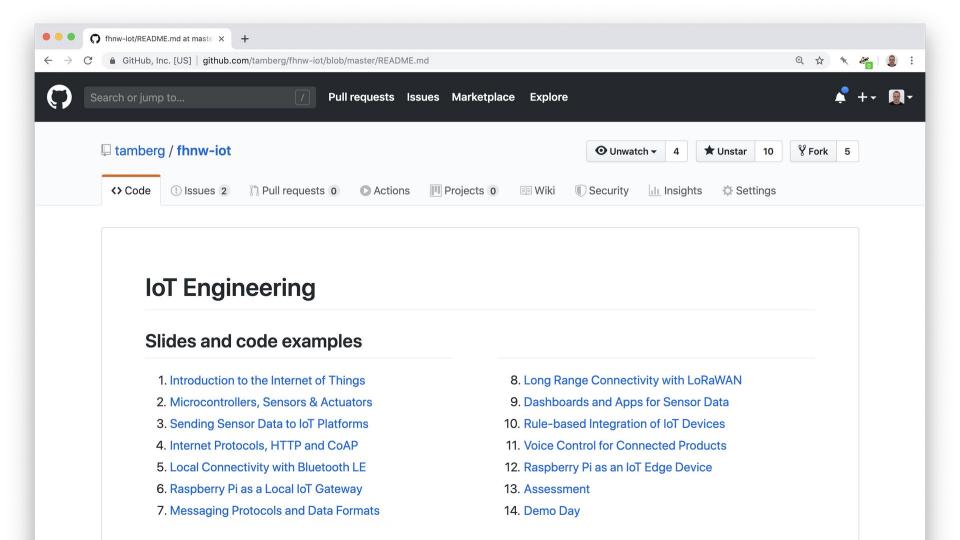
CC BY-SA, Thomas Amberg, FHNW Screenshots considered fair use Slides on Twitter @tamberg



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Fachhochschule Nordwestschwei: Hochschule für Technik

IoT Hardware for CS Bachelor Students

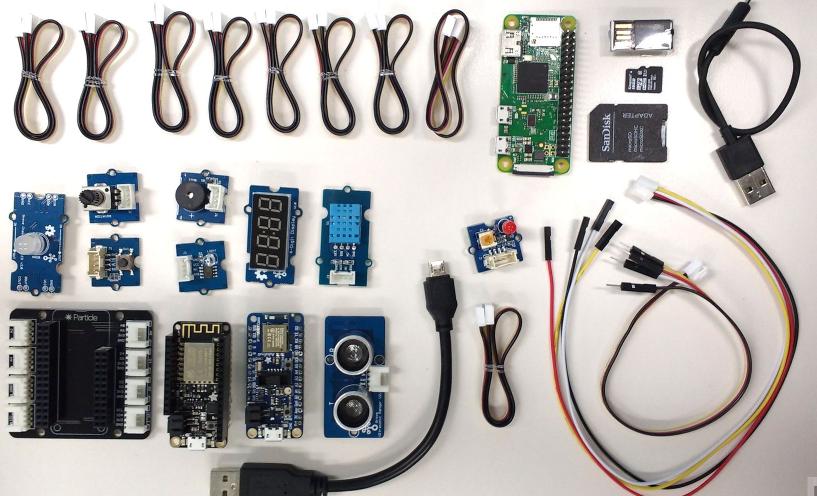
CC BY-SA thomas.amberg@fhnw.ch, 24.01.2019

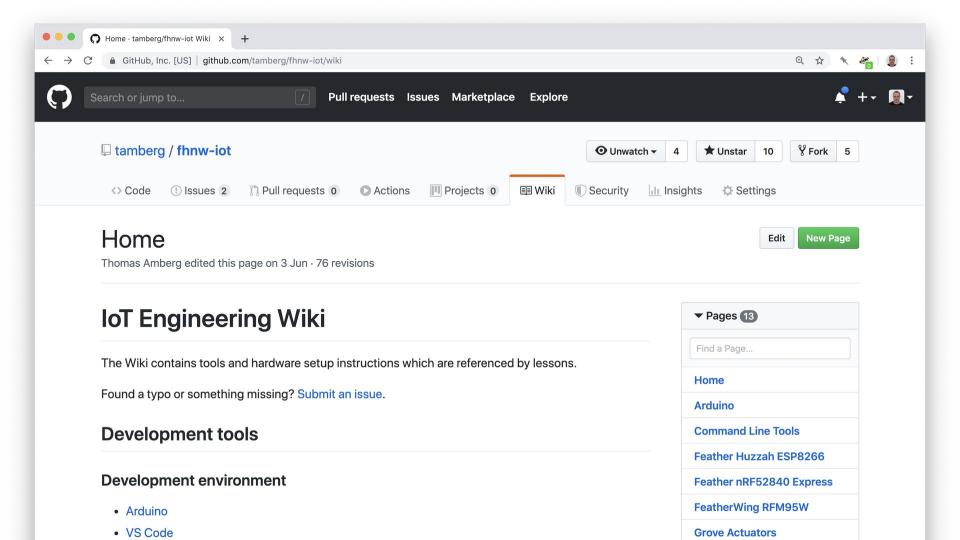
Abstract

Options and thoughts around Internet of Things hardware for computer science bachelor students.

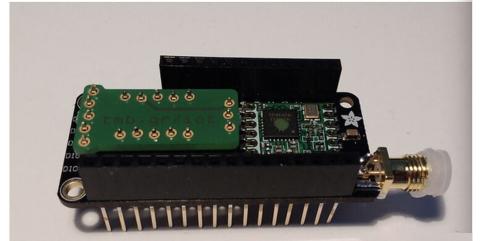
Introduction

The following options were collected during the evaluation of IoT hardware for the course *IoT*Engineering [o] at FHNW, the University of Applied Sciences and Arts Northwestern Switzerland.









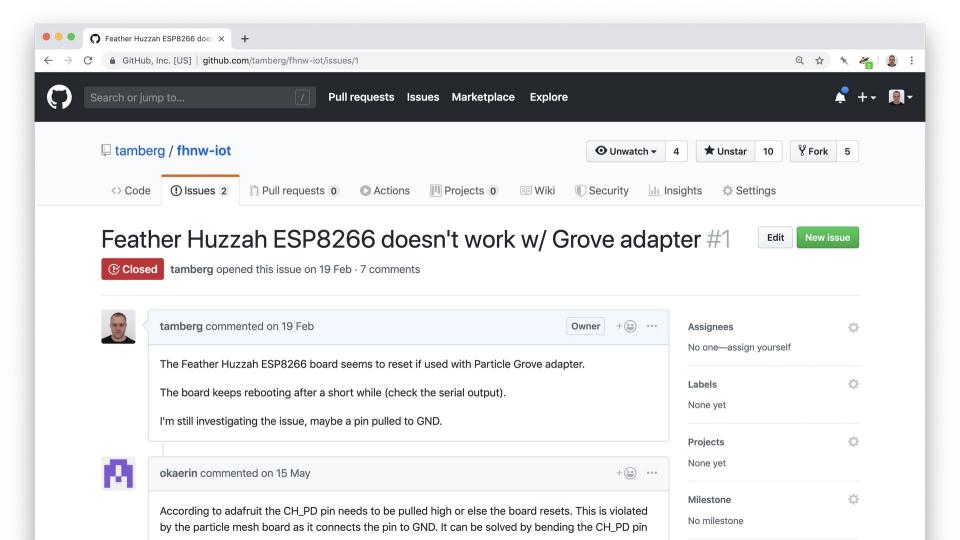
FeatherWing RFM95W · tambe × + GitHub, Inc. [US] | github.com/tamberg/fhnw-iot/wiki/FeatherWing-RFM95

Feather Huzzah ESP8266

```
const lmic_pinmap lmic_pins = {
    .nss = 2, // CS
    .rxtx = LMIC_UNUSED_PIN,
    .rst = 16, // RST
    .dio = {
        15, // DIO0 = IRQ
        0, // DIO1
        LMIC_UNUSED_PIN
    }
};
```

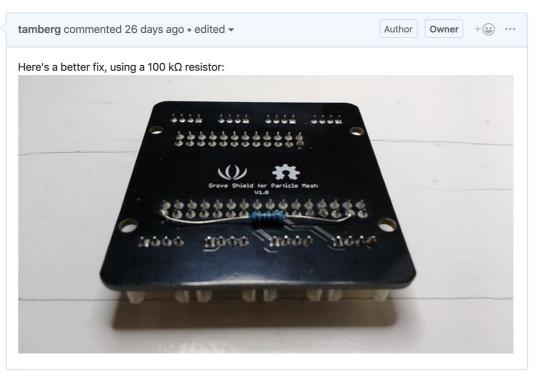
Feather nRF52840 Express

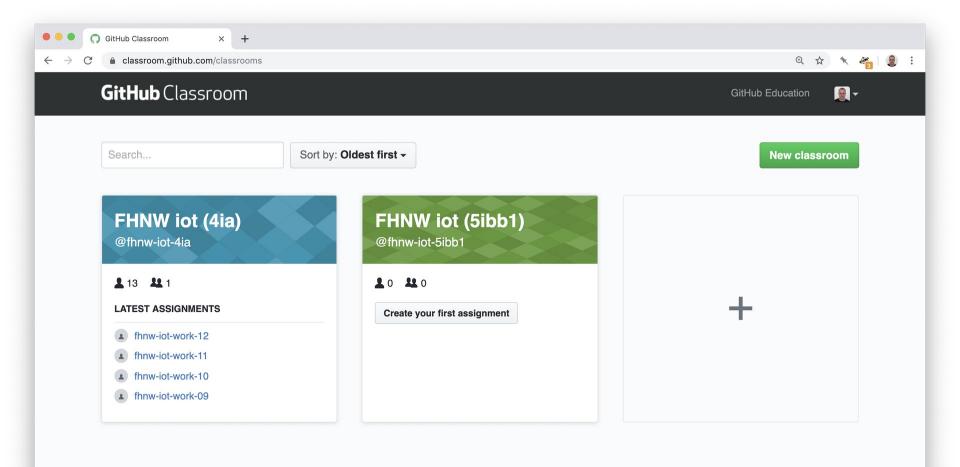
```
const lmic_pinmap lmic_pins = {
    .nss = 5, // CS
    .rxtx = LMIC_UNUSED_PIN,
    .rst = 6, // RST
    .dio = {
        10, // DIO0 = IRQ
        9, // DIO1
        LMIC_UNUSED_PIN
    }
};
```











with ♥ by GitHub

GitHub Classroom is open source.

