

# Introduction to the Internet of Things

Session 08

Ulrich Norbistrath

# Outline

- FLOGO
- Driver
- Lora intro

# Finish Flogo Integrator

- Demonstration
- Note down differences to your tries

# How to write a driver in IoTempower?

- Demonstration (MPR121)
  - What are the steps building a new IoTempower device driver?
  - What are the challenges/pitfalls?
  - → all into research record
- Any takers on PCF8591?
- Any other devices you would like to see? → issues on github (or implement and PR)

# Powermanagement on ESP8266

- Demonstration
- Find one example where this could have made sense in your past projects → research report

# LORA

- Andreas Spiess, Youtube, explanation movie
  - <https://www.youtube.com/watch?v=hMOwbNUpDQA>
- Make notes regarding (→ lecture record):
  - What is the relation bandwidth/range/power?
  - What is the link budget?
  - What is the community approach?
  - What are benefits with LORA?
  - what are problems with LORA?

# Lab 8

- Continue Project 1 – measuring liquids on boat, start working on report and story
- Finish FLOGO task
- Check out powersaving options in IoTempower, build a power saving temperature module