REMOTE ROOMBA

E5IOT

Malthe Brauer-Nielsen

INTRODUCTION

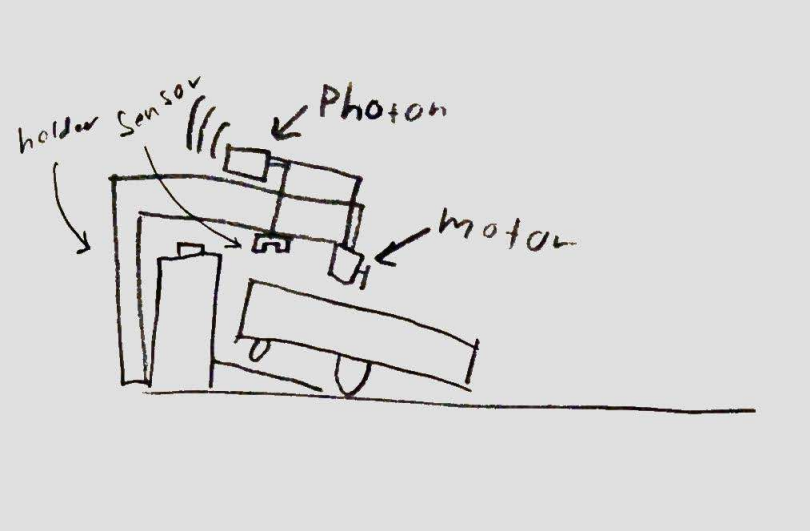
The idea

- Non wireless Roomba is wireless

How it works

Why this idea?

- I always forget it
- It's useful



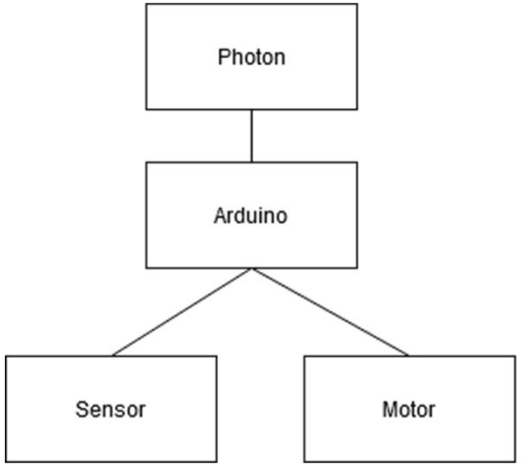
KEY REQUIREMENTS

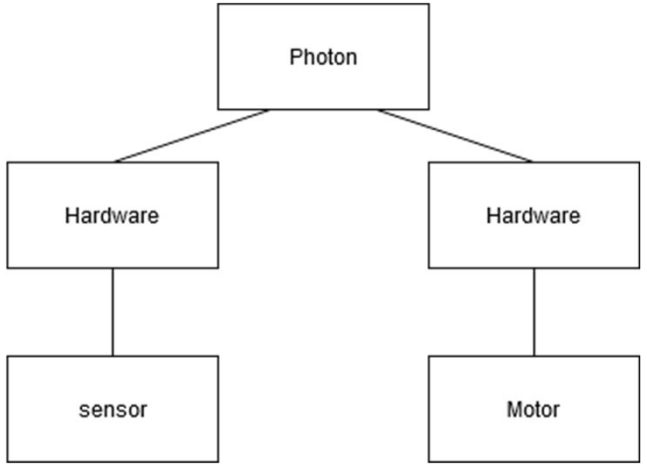
1. Start the Roomba Remote
2. Give the user information of what happens

TECHNICAL CHALLENGES

Hardware

- Method 1
- Method 2
- Power

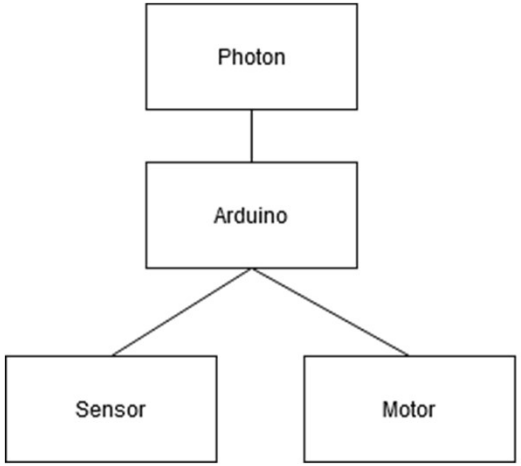


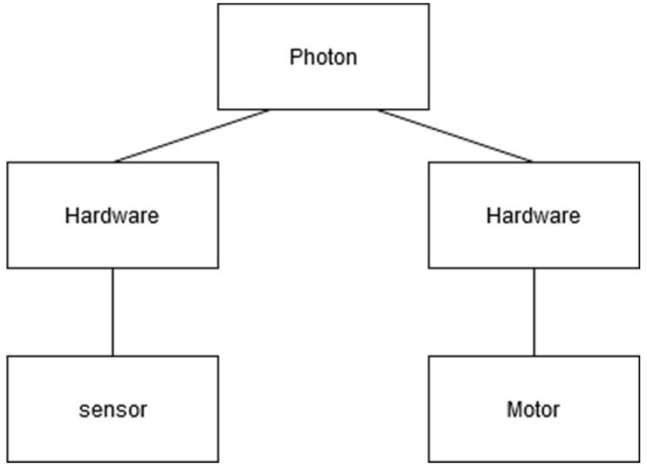


TECHNICAL CHALLENGES

Software

- Serial communication
  - UART, SPI or what?

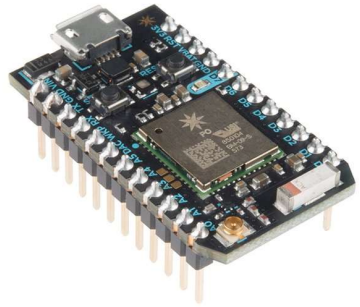


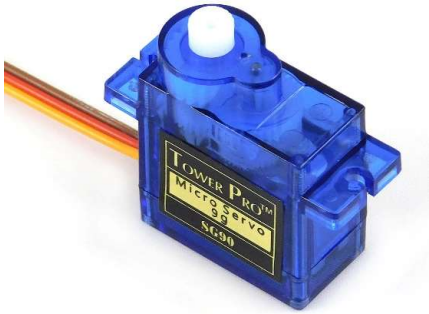


CHOICES OF SENSOR, ACTUATOR, ETC.

I projektets System-To-Be, er der blevet udvalgt hver af disse ting, for at opfylde opgavens krav;

- Web opkobling – Particle board, model: Photon [1]
- Webtjeneste – IFTTT (IF This Then That) [2]
- Sensor – Ultra sonic sensor, model: HC-SR04 [3]
- Aktuator – Servo motor, model: SG90 [4]

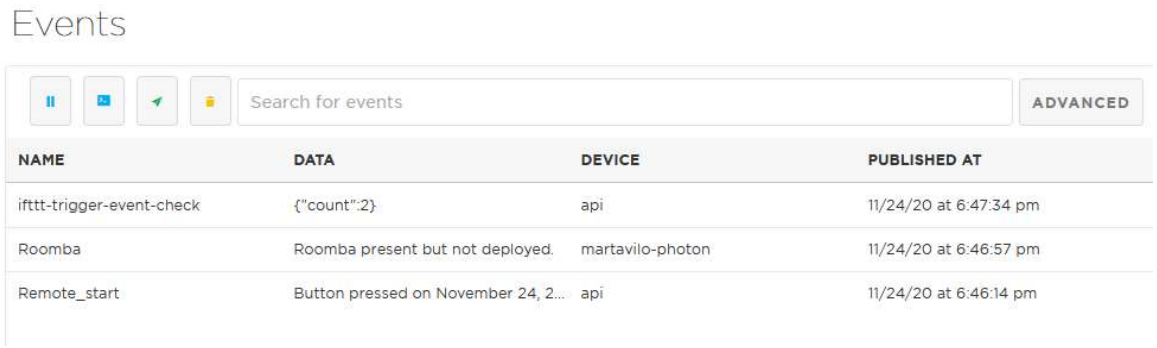




HOW TO TEST IT?

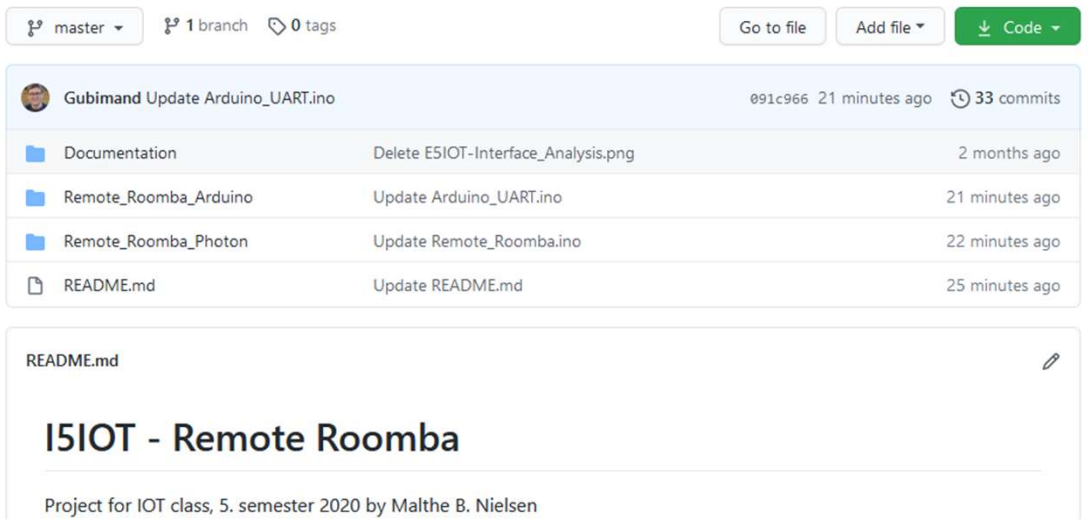
Integration tests of the system.

- Plug it in and press the button
- Look at IFTTT



THE INFAMOUS GITHUB

The link : https://github.com/Gubimand/E5IOT/tree/master/Remote_Roomba

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