

# REMOTE ROOMBA

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E5IOT

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# INTRODUCTION

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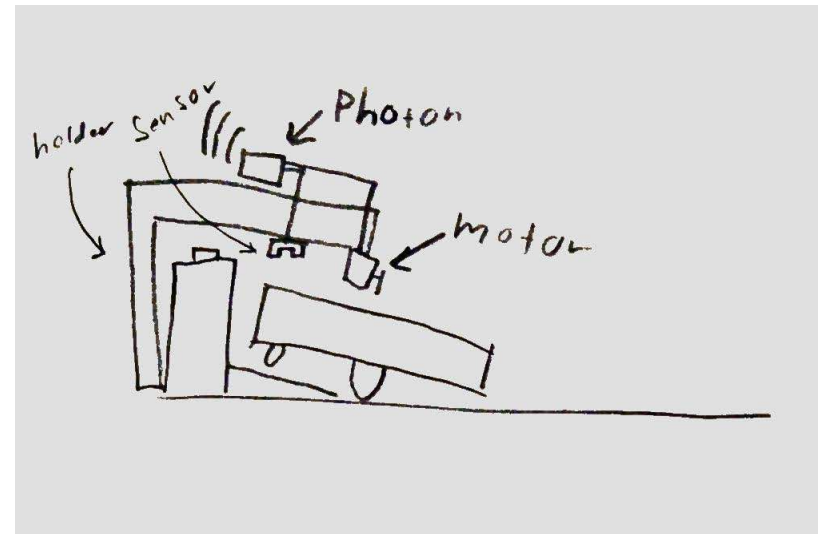
## The idea

- Non wireless Roomba is wireless

## How it works

## Why this idea?

- I always forget it
- It's useful



# KEY REQUIREMENTS

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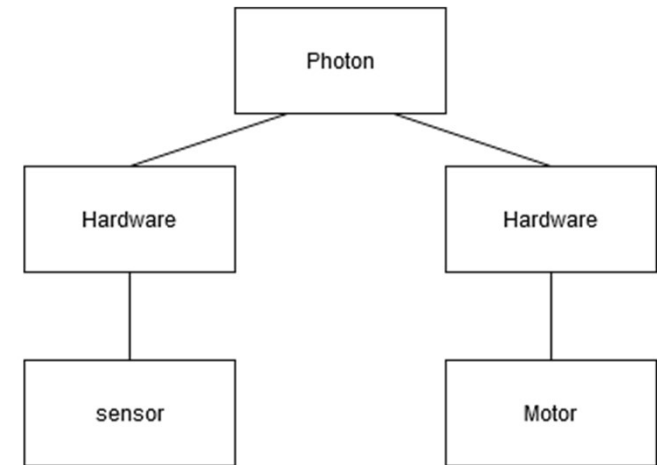
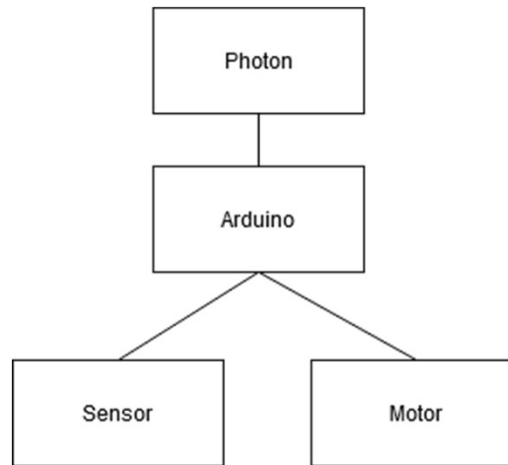
1. Start the Roomba Remote
2. Give the user information of what happens

# TECHNICAL CHALLENGES

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## Hardware

- Method 1
- Method 2
- Power

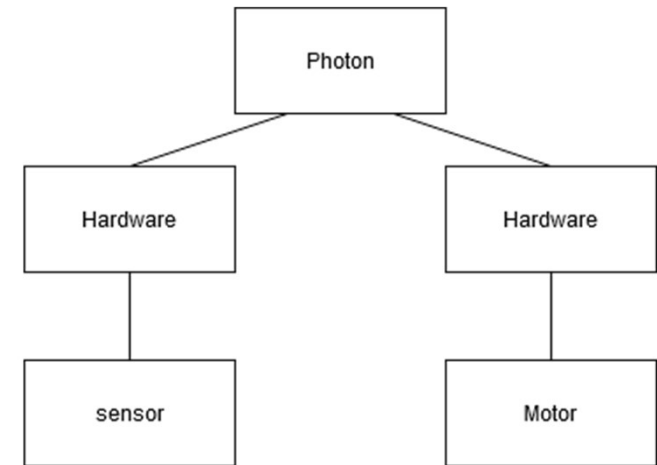
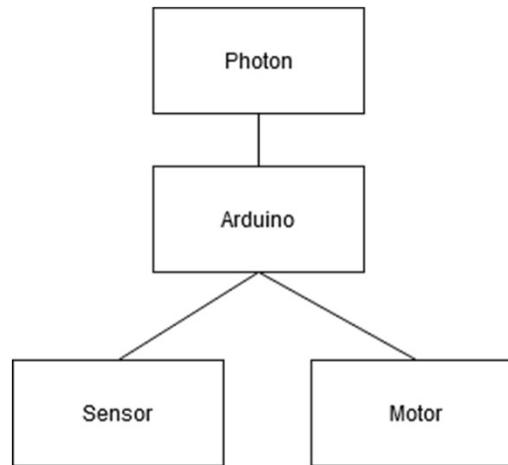


# TECHNICAL CHALLENGES

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## Software

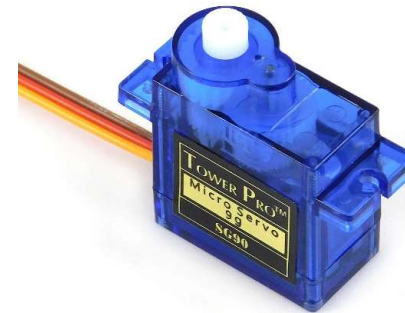
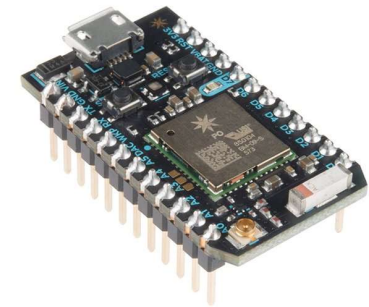
- Serial communication
  - UART, SPI or what?



# 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.

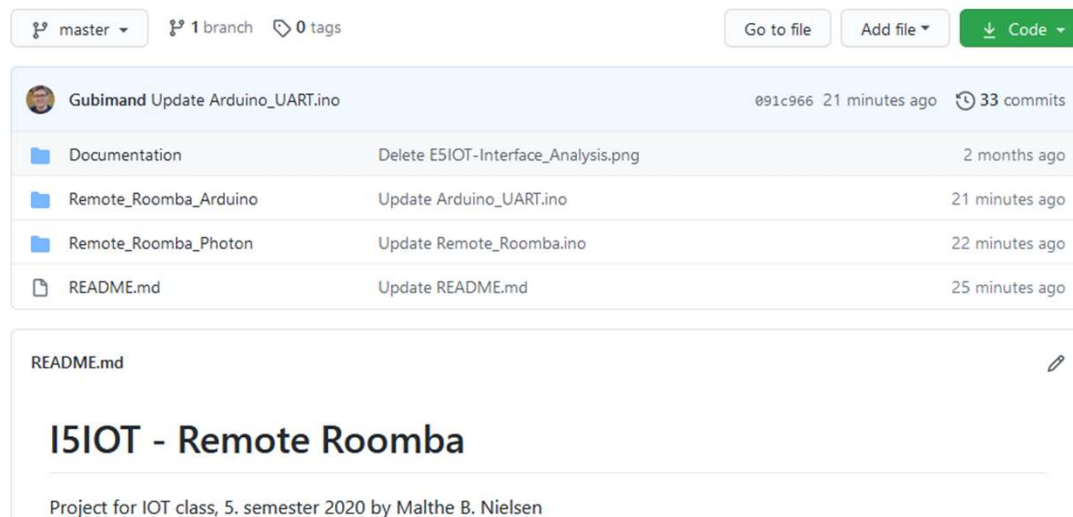
- Plug it in and press the button
- Look at IFTTT

## Events

Events			
<div><div><div>  </div><div></div><div></div><div></div></div><div>Search for events</div><div>ADVANCED</div></div>			
NAME	DATA	DEVICE	PUBLISHED AT
ifttt-trigger-event-check	{"count":2}	api	11/24/20 at 6:47:34 pm
Roomba	Roomba present but not deployed.	martavilo-photon	11/24/20 at 6:46:57 pm
Remote_start	Button pressed on November 24, 2...	api	11/24/20 at 6:46:14 pm

# THE INFAMOUS GITHUB

The link : [https://github.com/Gubimand/E5IOT/tree/master/Remote\\_Roomba](https://github.com/Gubimand/E5IOT/tree/master/Remote_Roomba)



master 1 branch 0 tags

Go to file Add file Code

Commit	Author	Time
091c966	Gubimand	21 minutes ago
33 commits		

File	Commit	Time
Documentation	Delete E5IOT-Interface_Analysis.png	2 months ago
Remote_Roomba_Arduino	Update Arduino_UART.ino	21 minutes ago
Remote_Roomba_Photon	Update Remote_Roomba.ino	22 minutes ago
README.md	Update README.md	25 minutes ago

README.md

## I5IOT - Remote Roomba

Project for IOT class, 5. semester 2020 by Malthe B. Nielsen





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