**Planning**

**Autori:**

* Eusebiu Burlacu
* Andries Cristian
* Lucian Burlacu
* Vantur Antonel

**To Do:**

1. Environment Setup
2. 2x impedance sensor
3. 2x Customized impedance analyser
4. RF message format
5. IA SW
6. RF SW
7. Battery Level SW
8. Temp, Humidity SW
9. ZYBO RF SW
10. ZYBO OLED SW
11. ZYBO linux
12. ZYBO IOT
13. Documentation

**Timeline - 14 weeks**

**6-13 Feb:**

**Environmnet Setup ~ one day:**

* Toni + Andries – MPIDE, one serial terminal, notepad++, excel, git client ...
* Sebi + Luci – Vivado, Vmware + Ubuntu, MPIDE, notepad++, serial terminal, git client ...
* Get repository from GitHub https://github.com/eusebiuburlacu/WWS.git

**Documentation:**

* How to use git ( commit, push, pull, fetch, branch etc )
* Toni – Read all about RF modules

<http://store.digilentinc.com/pmodrf2-ieee-802-15-rf-transceiver/>

[**http://www.microchip.com/wwwproducts/Devices.aspx?dDocName=en027752**](http://www.microchip.com/wwwproducts/Devices.aspx?dDocName=en027752)

* Andries – Read all about IA

[**http://store.digilentinc.com/pmodia-impedance-analyzer/**](http://store.digilentinc.com/pmodia-impedance-analyzer/)

[**http://www.analog.com/media/en/technical-documentation/data-sheets/AD5933.pdf**](http://www.analog.com/media/en/technical-documentation/data-sheets/AD5933.pdf)

* Andries + Toni

<http://store.digilentinc.com/chipkit-cmod-breadboardable-mz-microcontroller-board/>

* Sebi + Luci

[**http://store.digilentinc.com/zybo-zynq-7000-arm-fpga-soc-trainer-board/**](http://store.digilentinc.com/zybo-zynq-7000-arm-fpga-soc-trainer-board/)

[**http://xillybus.com/xillinux**](http://xillybus.com/xillinux)

[**http://www.xilinx.com/products/silicon-devices/soc/zynq-7000.html**](http://www.xilinx.com/products/silicon-devices/soc/zynq-7000.html)

**13-20 Feb**

* Toni – Define RF message format, 4 message types: impedance, temp, humidity, bat level
* Andries – Impedance sensor DIY, 2 bucks
* Luci - Install Linux on ZYBO
* Sebi - Some Architecture

**20-27 Feb**

* Toni - Work with RF, take sniffer from lab and make tests, send receive packets
* Andries-Work with IA, tests, Software
* Luci-Zybo, Led Blink from Linux, Try to communicate over SPI

**27-5 Mar**

* Toni – RF SW Dev
* Andries – IA SW DEV
* Luci – RF Zybo – adapt library

**5-12 Mar**

* Toni – RF SW Dev
* Andries – IA SW DEV
* Luci – RF Zybo – adapt library

**12-19 Mar**

* Toni – Battery level measurement, we use 3V coin cell Dev
* Andries – Temp + Humidity Sensor Dev
* Luci – RF Zybo – try to receive packets

**19-26 Mar**

* Toni – Battery level measurement, we use 3V coin cell Dev
* Andries – Temp + Humidity Sensor Dev
* Luci – RF Zybo – Oled

**26-2 Apr**

* Toni – Battery level measurement, we use 3V coin cell Dev
* Andries – Temp + Humidity Sensor Dev
* Luci – RF Zybo – Oled

**2-9 Apr**

* Toni +Andries – Assamble components
* Luci – RF Zybo – ethernet

**9-16 Apr**

* Toni +Andries – Assamble components
* Luci – RF Zybo – ethernet

**16-23 Apr**

* Documentation

**23-30 Apr**

* Documentation

**30-7 Mai**

* Presentation

**7-14 Mai**

* Speech