

E-MAISEL

Travail
effectué

- Lingerie-Analyse du cycle
- Cuisine-Mise en place du capteur d'ampère

Travail restant

- Transmission des données

Planification
prévisionnelle



Analyse du cycle

Capteur
analogique

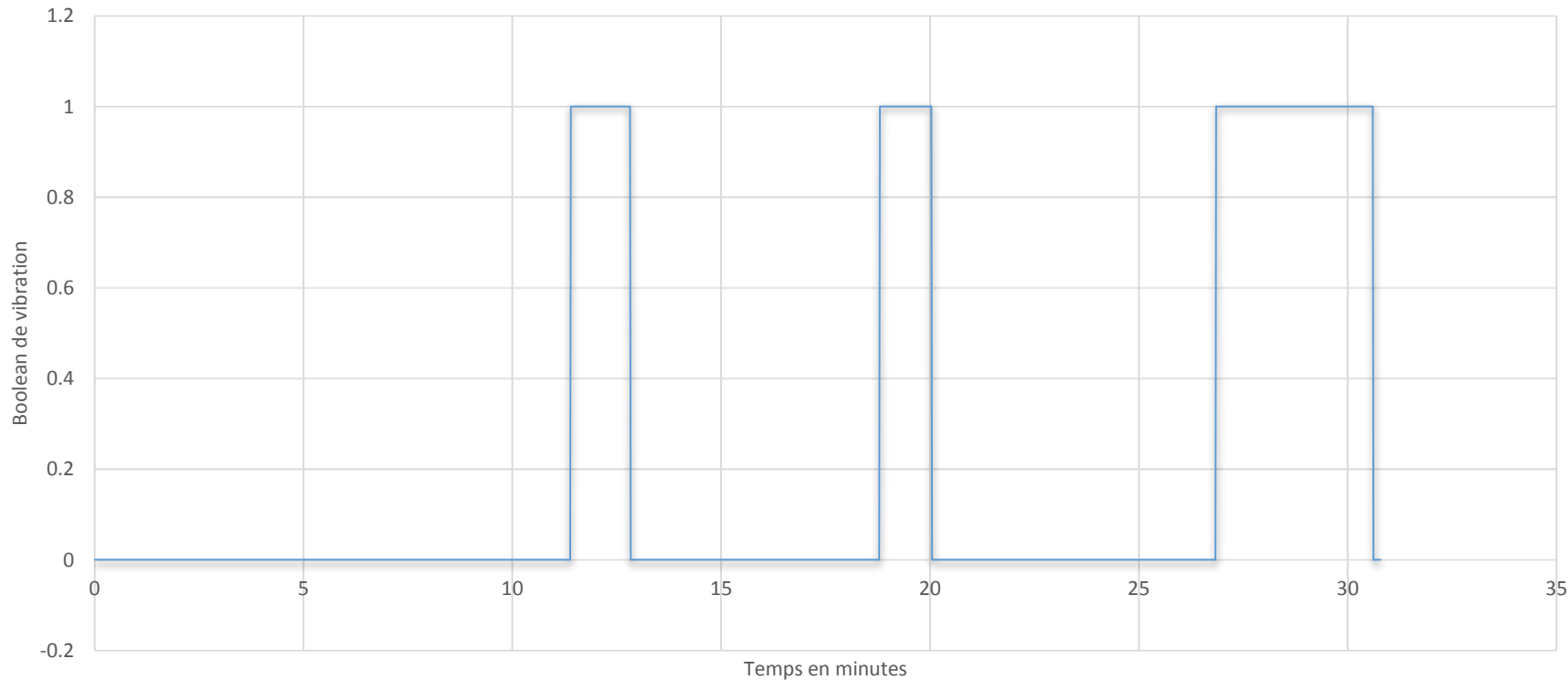
Port
communication
Serial

Exploitation des
données par
Serial Excel

Exploitation des
données brutes

Modèles de
référence d'un
cycle de lavage

Graphe de vibration d'un cycle de lavage

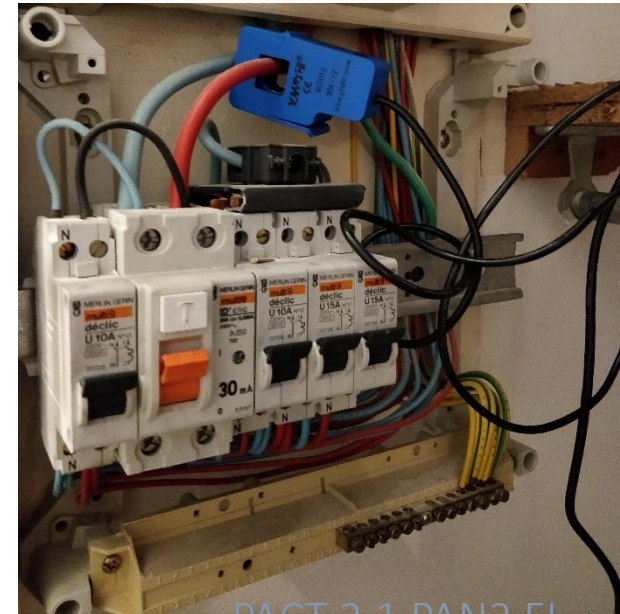
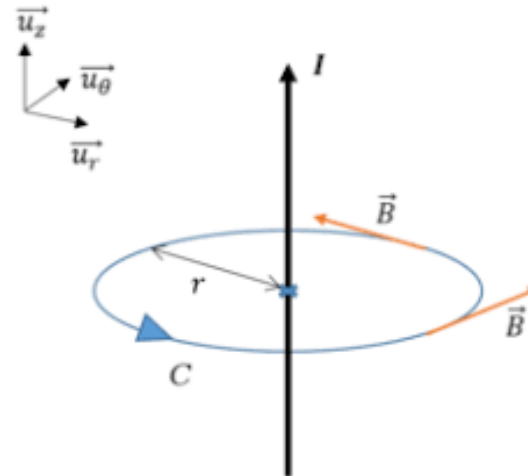
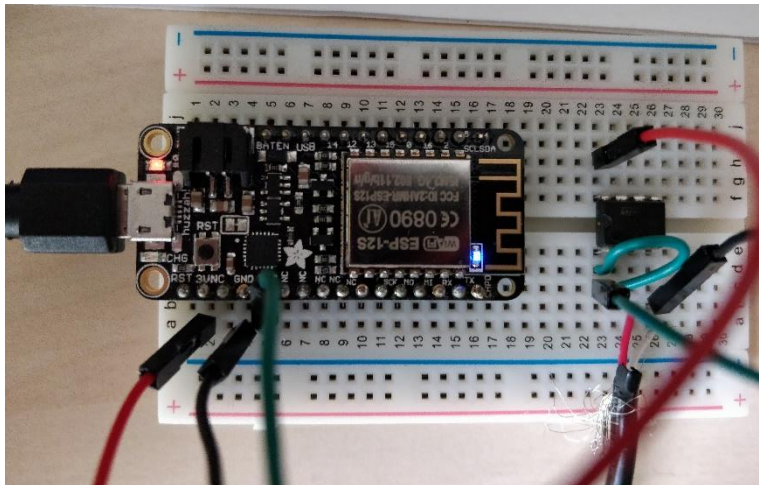
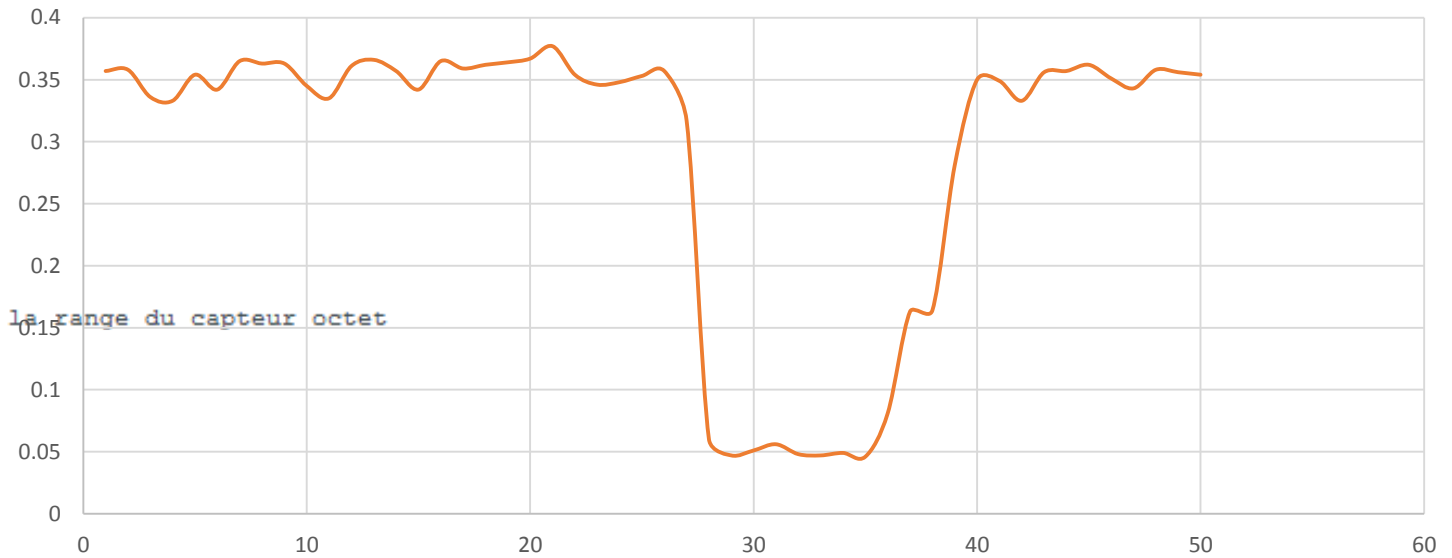


2:56:36					11.7833
PM	707	354	1	1	333
2:56:37					
PM	708	5	0	1	11.8
2:56:38					11.8166
PM	709	2	0	1	667
2:56:39					11.8333
PM	710	676	1	1	333
2:56:40					
PM	711	474	1	1	11.85
2:56:41					11.8666
PM	712	32	0	1	667
2:56:42					11.8833
PM	713	6	0	1	333
2:56:43					
PM	714	13	0	1	11.9
2:56:44					11.9166
PM	715	8	0	1	667
2:56:45					11.9333
PM	716	1	0	1	333
2:56:46					
PM	717	1024	1	1	11.95

Mise en place du capteur d'Ampère

Intensité perçue

```
float get_current()
{
    float voltSensor;
    float current=0;
    float sum=0;
    long temps=millis();
    int N=0;
    while(millis()-temps<500)
    {
        voltSensor = analogRead(A0) * (1.1 / 1023.0); //Mapper à la range du capteur octet
        current=voltSensor*30.0; //On mappe au max à 30 A
        sum=sum+sq(current); //sum carré
        N=N+1;
        delay(1);
    }
    sum=sum*2; //redresser le signal des negatifs
    current=sqrt((sum)/N); //True RMS equation
    return(current);
}
```



Transmission des données

```
#include <Adafruit_ESP8266.h>
#include <SoftwareSerial.h>

#define ESP_RX  2
#define ESP_TX  3
#define ESP_RST 4
SoftwareSerial softser(ESP_RX, ESP_TX);

// Must declare output stream before Adafruit_ESP8266 constructor; can be
// a SoftwareSerial stream, or Serial/Serial1/etc. for UART.
Adafruit_ESP8266 wifi(&softser, &Serial, ESP_RST);
// Must call begin() on the stream(s) before using Adafruit_ESP8266 object.

#define ESP_SSID "SSIDNAME" // Your network name here
#define ESP_PASS "PASSWORD" // Your network password here

#define HOST      "www.adafruit.com" // Host to contact
```

flosnix / Dashboards	
Actions ▾	
<input type="checkbox"/> Name ▾	Key ▾
<input type="checkbox"/> Mesure	measure
<input type="checkbox"/> Welcome Dashboard	welcome-dashboard

Prévisionnel

