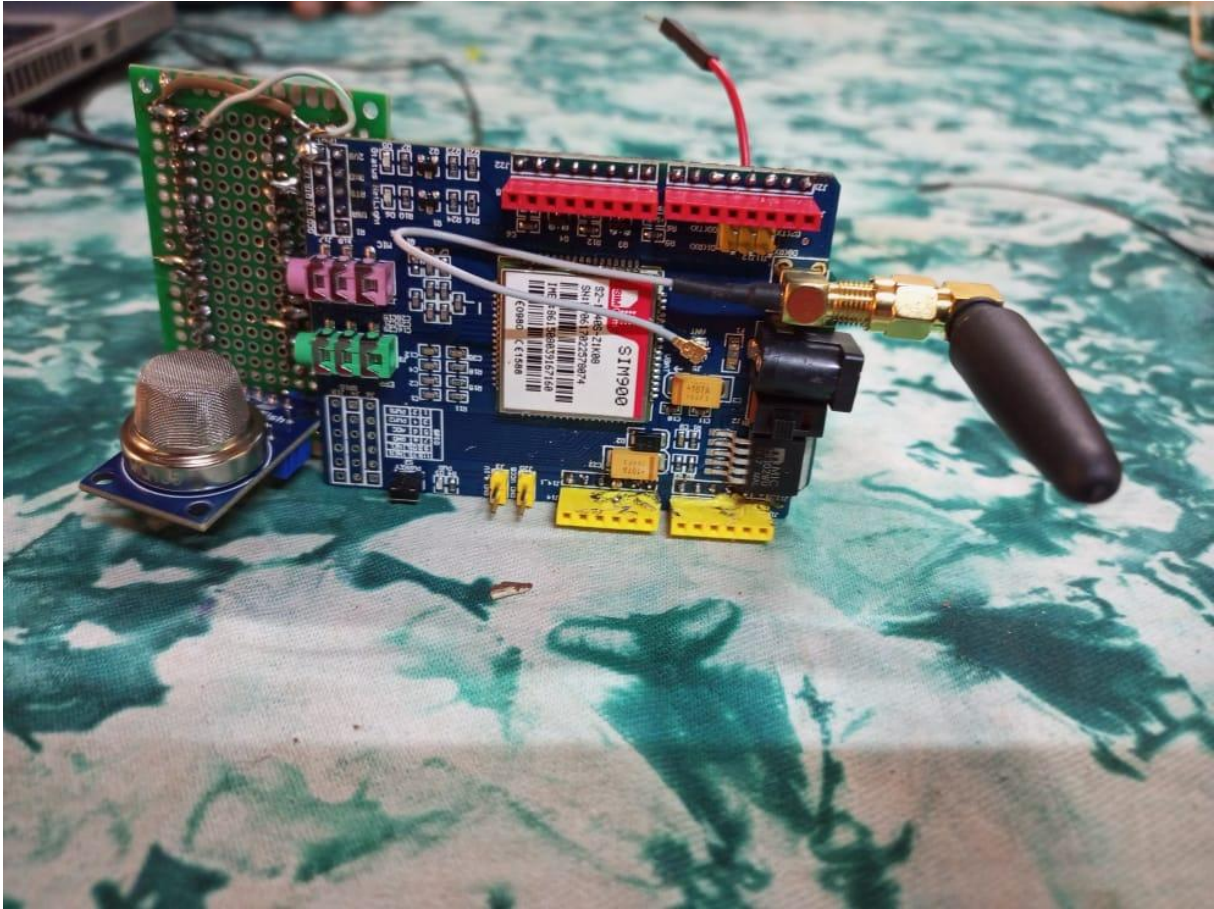


Code source du détecteur de pollution réalisé par le Wakatlab - Burkina Fasso.



[Documentation gestion du montage et de la gestion de données via le capteur de pollution sensor community](#)

[Documentation gestion d'un bouclier GPRS](#)

[Documentation de conduite d'atelier \(projet forgecc.org\)](#)

Code source (Arduino).

```
-----  
#include <SoftwareSerial.h>  
  
#include <MQ135.h>  
  
SoftwareSerial gprsSerial(7,8);  
  
#include <String.h>  
  
#define PIN_MQ135 A2  
  
MQ135 mq135_sensor(PIN_MQ135);  
  
void setup()
```

```

{
  gprsSerial.begin(9600);      // the GPRS baud rate
  Serial.begin(9600); // the GPRS baud rate
  delay(1000);
}

void loop()
{
  float ppm = mq135_sensor.getPPM();
  Serial.print(" PPM: ");
  Serial.print(ppm);
  delay(500);
  if (gprsSerial.available())
    Serial.write(gprsSerial.read());
  gprsSerial.println("AT");
  delay(1000);
  gprsSerial.println("AT+CPIN?");
  delay(1000);
  gprsSerial.println("AT+CREG?");
  delay(1000);
  gprsSerial.println("AT+CGATT?");
  delay(1000);
  gprsSerial.println("AT+CIPSHUT");
  delay(1000);
  gprsSerial.println("AT+CIPSTATUS");
  delay(2000);
  gprsSerial.println("AT+CIPMUX=0");
  delay(2000);
  ShowSerialData();

  gprsSerial.println("AT+CSSTT=\"airtelgprs.com\"");//start task and setting the APN, marche seulement
  avec la puce Orange si tu utilise une autre sim tu seras obligé de changer l'APN par l4APN de la puce
  correspondante

```

```
delay(1000);
ShowSerialData();
gprsSerial.println("AT+CIICR");//bring up wireless connection
delay(3000);
ShowSerialData();
gprsSerial.println("AT+CIFSR");//get local IP adress
delay(2000);
ShowSerialData();

gprsSerial.println("AT+CIPSPRT=0");
delay(3000);

ShowSerialData();

gprsSerial.println("AT+CIPSTART=\"TCP\", \"api.thingspeak.com\", \"80\");//start up the connection
delay(6000);

ShowSerialData();

gprsSerial.println("AT+CIPSEND");//begin send data to remote server
delay(4000);
ShowSerialData();
// changer "GET....." par ce le get de ta plateforme thingspeak
String str="GET https://api.thingspeak.com/update?api_key=IJ2I6D2H63DUQW08&field1=" +
String(ppm);
Serial.println(str);
gprsSerial.println(str);//begin send data to remote server

delay(4000);
ShowSerialData();
gprsSerial.println((char)26);//sending
```

```
delay(5000);//waitting for reply, important! the time is base on the condition of internet
gprsSerial.println();
ShowSerialData();

gprsSerial.println("AT+CIPSHUT");//close the connection
delay(100);
ShowSerialData();
}
void ShowSerialData()
{
while(gprsSerial.available() != 0)
Serial.write(gprsSerial.read());
delay(5000);

}
```

CC-BY-SA - Wakatlab - Burkina Fasso

