

# **Revue de Projet**

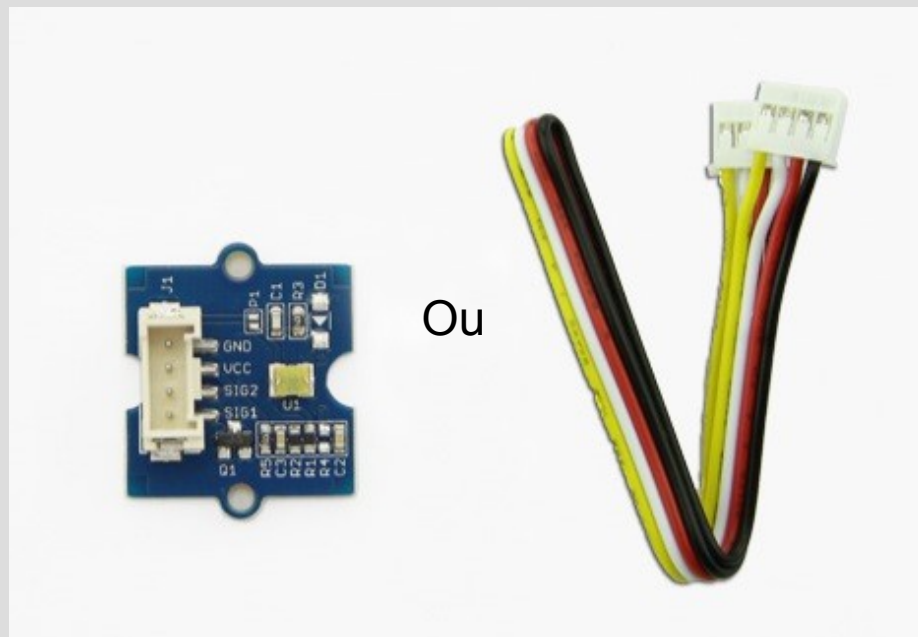
## **Assistance à la personne : Surveillance médicale**

### **Détection de la chute d'une personne**

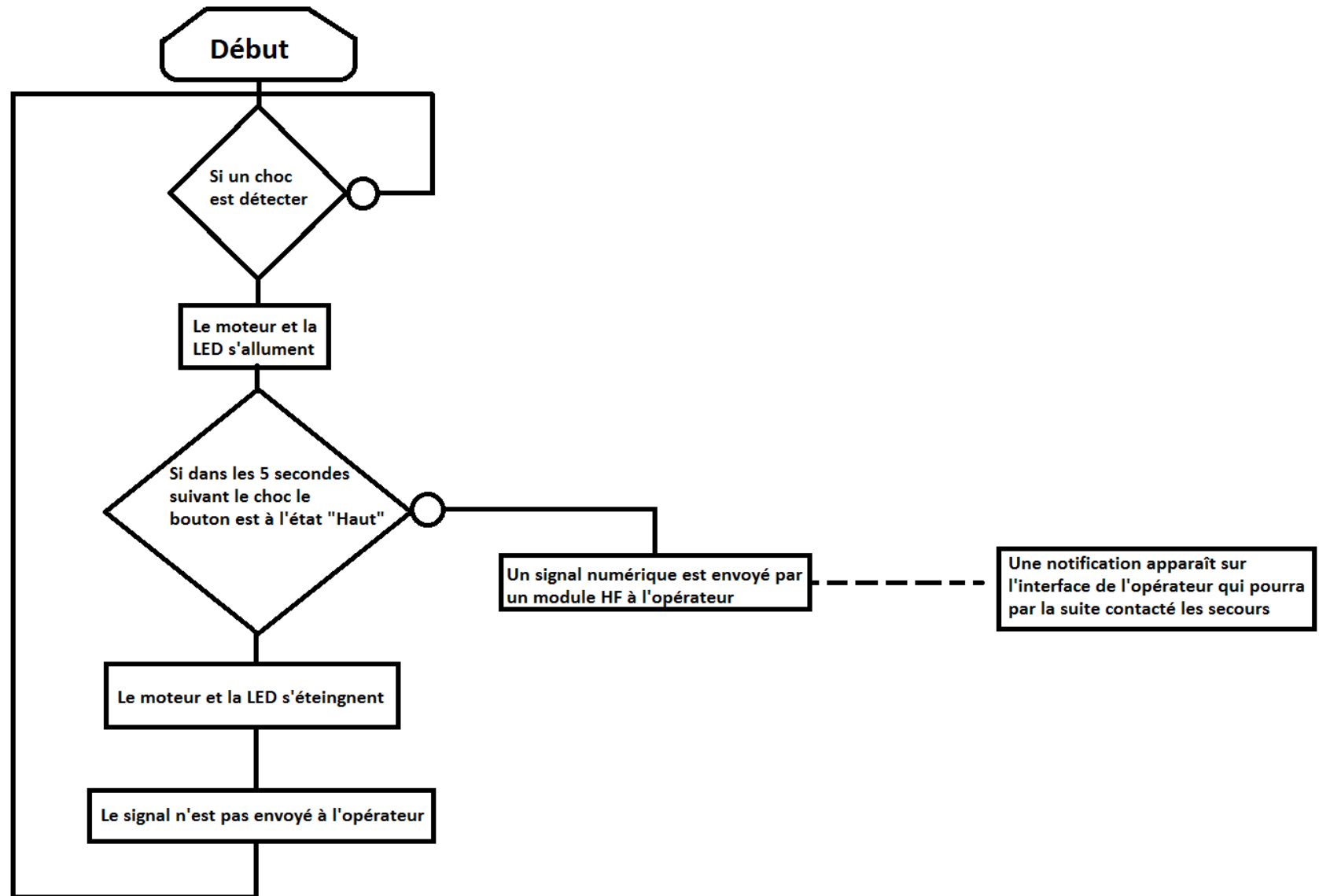
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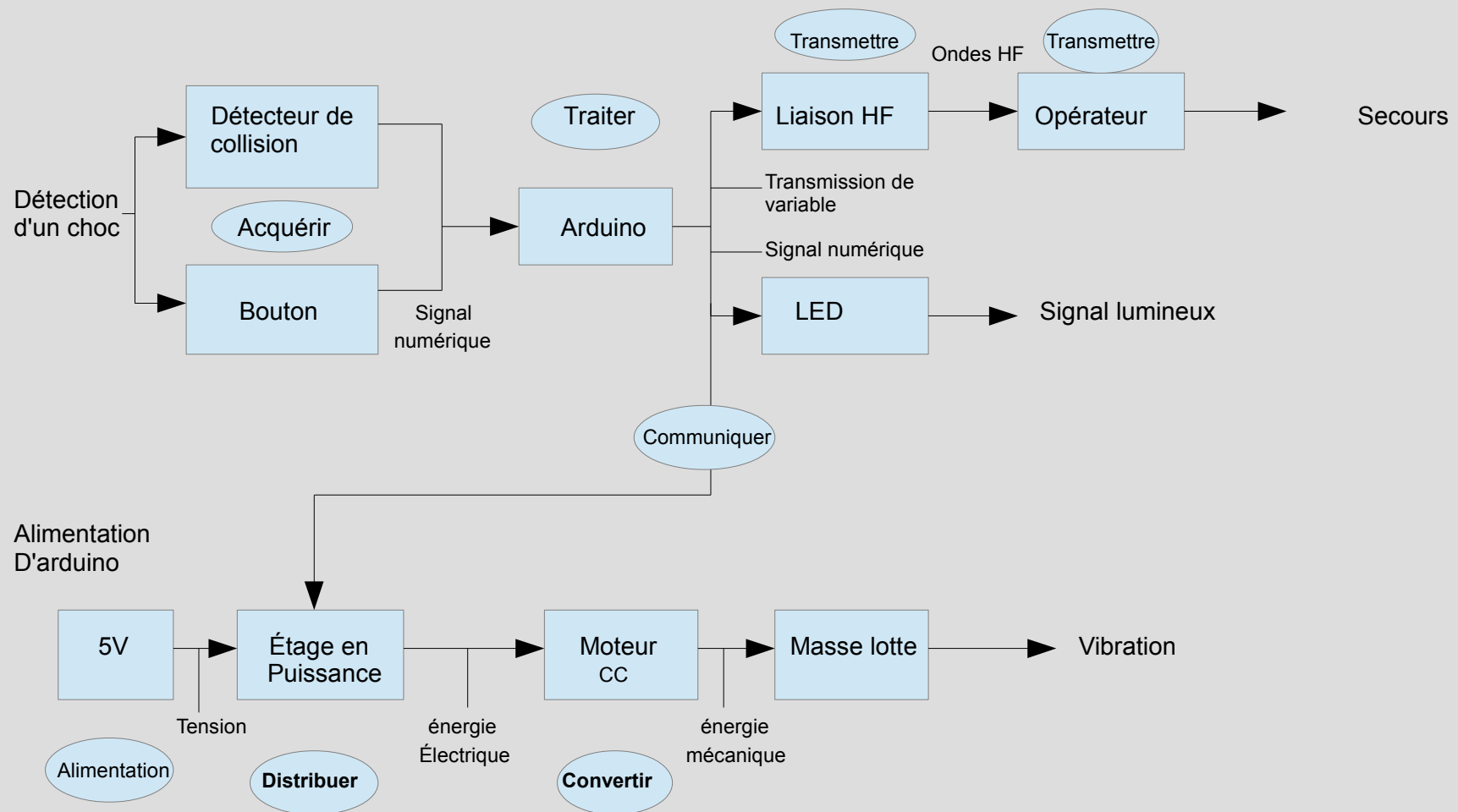
# Solutions



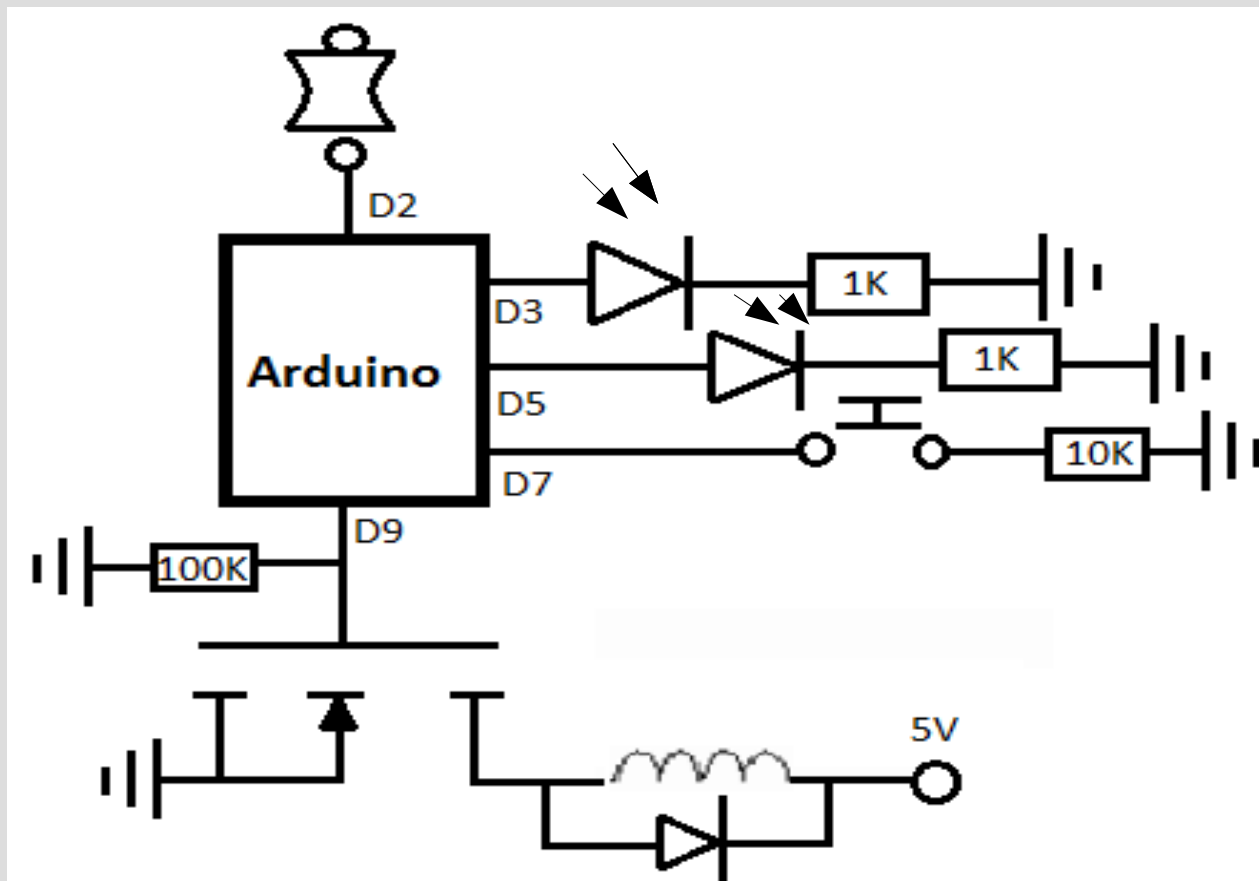
# Démarche



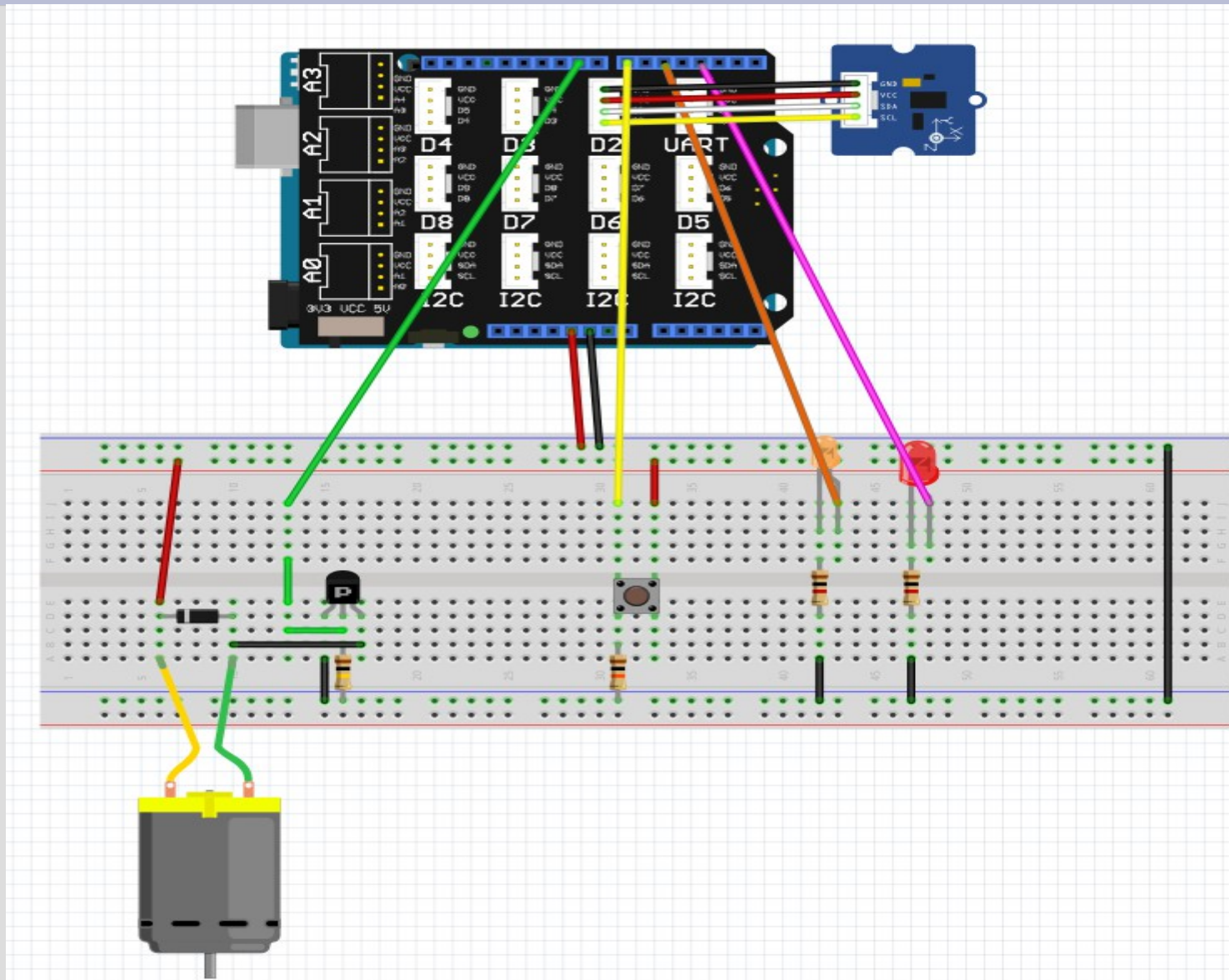
# Démarche



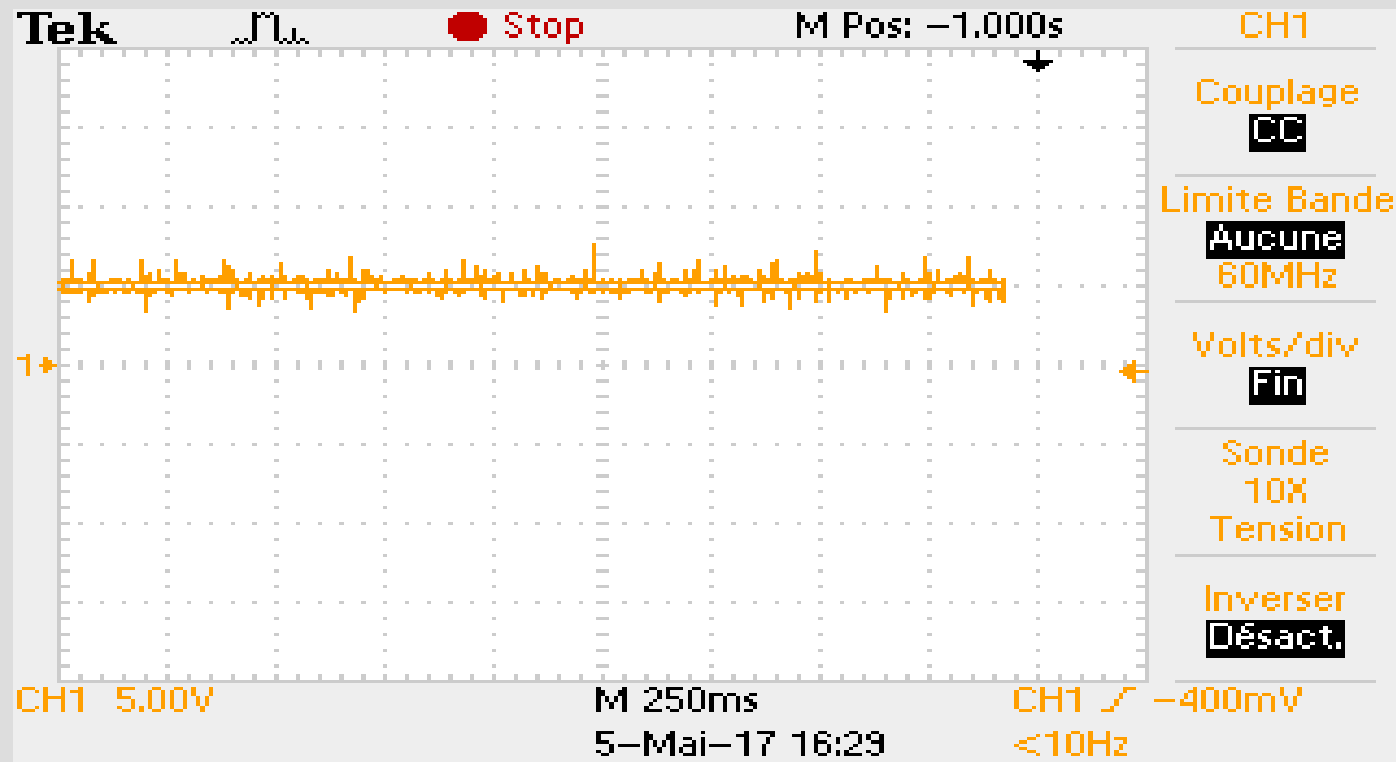
## Démarche



# Démarche



# Analyse comportementale



# Annexe

```
int LED=5;
int COLLISION_SENSOR=2;
int RED=3;
int motor=9;
int button=7;
int membutton;
void setup()
{
    pins_init();
    Serial.begin(9600);
}

void loop()
{
    membutton = digitalRead(button);
    if(isTriggered())
    {
        turnOnLED();
        delay(1000);
    }
    else turnOffLED();
}

void pins_init()
{
    pinMode(button, INPUT);
    pinMode(motor, OUTPUT);
    pinMode(LED, OUTPUT);
    turnOffLED();
    pinMode(COLLISION_SENSOR, INPUT);
    pinMode(RED, INPUT);
}
```

```
boolean isTriggered()
{
    if(!digitalRead(COLLISION_SENSOR))
    {
        delay(100);
        if(!digitalRead(COLLISION_SENSOR))
            return true;//the collision sensor triggers
        Serial.println("toto");
    }
    return false;
}

void turnOnLED()
{
    digitalWrite(LED, HIGH);//the LED is on
    analogWrite(motor, 255);
    delay(5000);
    if (digitalRead(button)==LOW)
    {
        digitalWrite(RED, HIGH);
    }
}

void turnOffLED()
{
    if (membutton == HIGH)
    { digitalWrite(RED, LOW);
    }

    digitalWrite(LED, LOW);//the LED is off
    analogWrite(motor, 0);
}
```



## Annexe



# Annexe

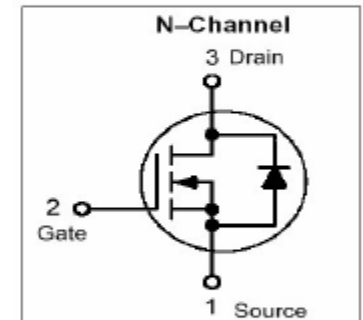
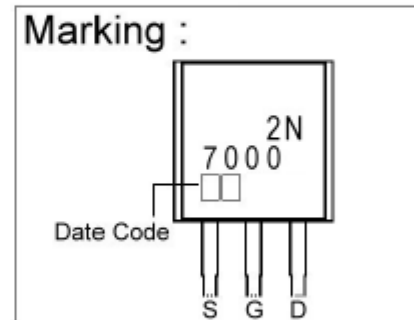
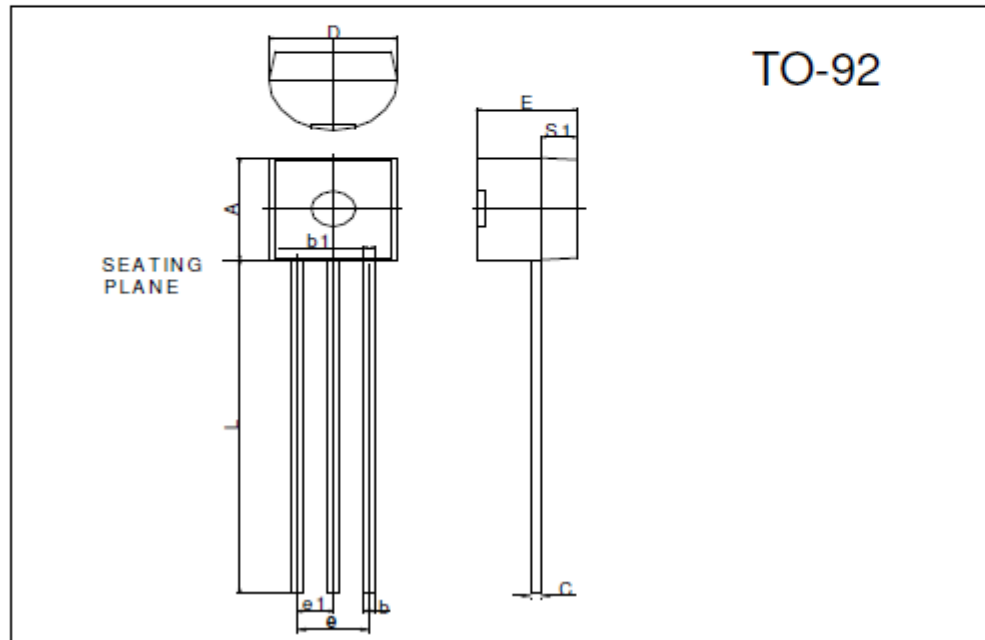
## G2N7000

## N-CHANNEL ENHANCEMENT MODE MOSFET

### Description

The G2N7000 is designed for high voltage, high speed applications such as switching regulators, converters, solenoid and relay drivers.

### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66