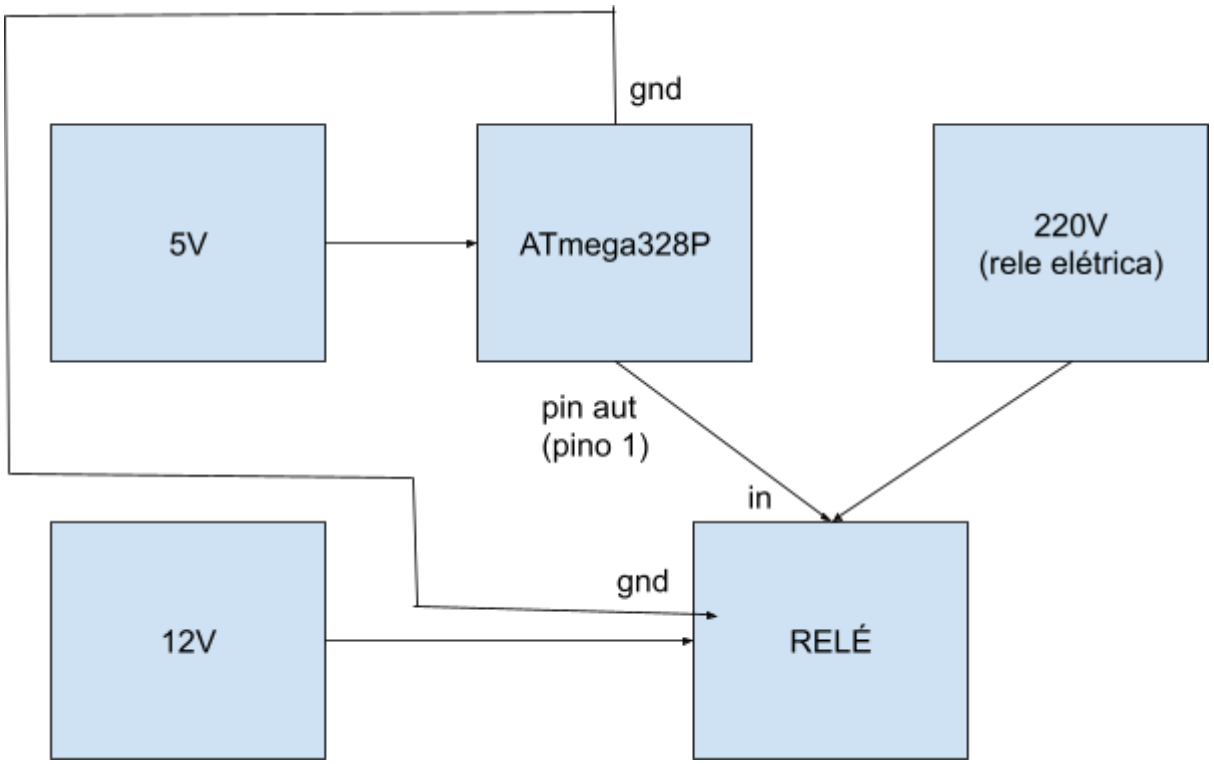
Moabe Barbosa Alves

1- Circuito em Anexo



2-

$$OCR1A = \frac{tempo\ x\ f_{clock}}{prescale}$$

$$OCR1A = \frac{250 * 16000(frequência\ ATmega328p)}{256}$$

$$15625(decimal) = 11\ 1101\ 0000\ 1001(binário$$

3-

```
#include <Arduino.h>

void setup() {
    DDRD = 0b00000100;
}
void loop() {
    PORTD = 0b00000100;
    // delay(delayPeriod);
    PORTD = 0b00000000;
    // delay(delayPeriod);
}
```