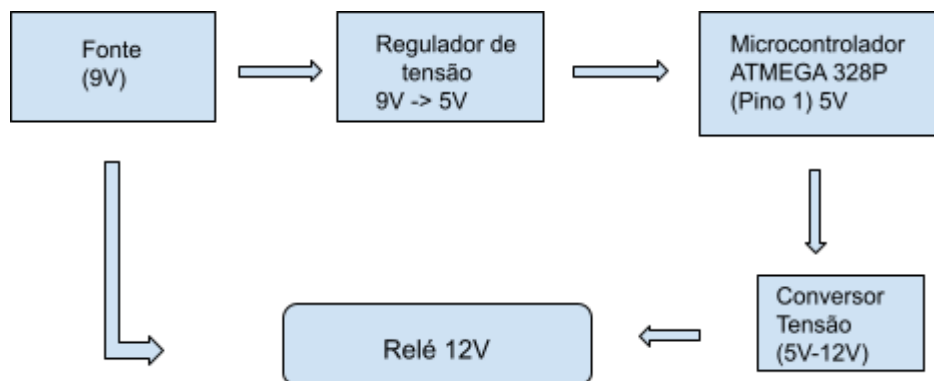


IFPB - Campus Campina Grande
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Disciplina: Sistemas Embarcados
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1. Diagrama de Bloco



Circuito Elétrico

Schema EAGLE anexado.

2. $OCR1A = (\text{tempo} * f \text{ clock}) / \text{prescaler}$
 $OCR1A = 250\text{ms} * 16\text{Mhz} / 256$
 $OCR1A = 0.250\text{s} * (16*10^6) / 256$
 $OCR1A = 15625$
 $OCR1A = 0011\ 1101\ 0000\ 1001$

3.

```
#include <Arduino.h>
```

```
void setup(){  
    DDRD = 0b00000100;  
}
```

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