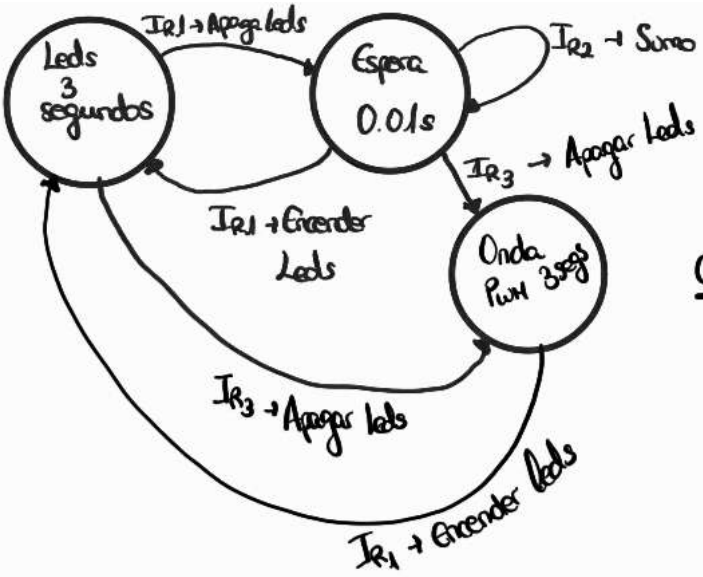

I_{R_1} → Timer 3 segundos

I_{R_2} → Timer de 0.01s

I_{R_3} → Pulsación de botón

Generación de onda PWM → Timer 0

- 244,14 H_z
- ⊕ 256 µs

$$F_{CLK} = \frac{16 \cdot 10^6}{N} \qquad P = \frac{1}{244,14} = \frac{N}{16 \cdot 10^6} \cdot 256$$

$$N = \frac{16 \cdot 10^6}{244,14 \cdot 256} = 256$$

- $F_{CLK} = \frac{16 \cdot 10^6}{256} = 62500$
- $C_+ = \frac{256 \cdot 10^{-6}}{1/62500} = 16$ → OCR0A
  - Non-inverted → 16
  - Inverted → 256 − 16 = 240

Conteo de 0.01s

- Timer 2 → Modo CTC
- Preescalado → 256
- $F_{CLK} = \frac{16 \cdot 10^6}{1024} = 15625$
- $0.01s = 1 \cdot 10^{-2}s$
- $C = \frac{1 \cdot 10^{-2}}{1/15625} = 157$

Conteo de 3s

- Timer 1 → Modo CTC
- $F_{CLK} = \frac{16 \cdot 10^6}{1024} = 15625$
- $C = \frac{3}{1/15625} = 46875$