

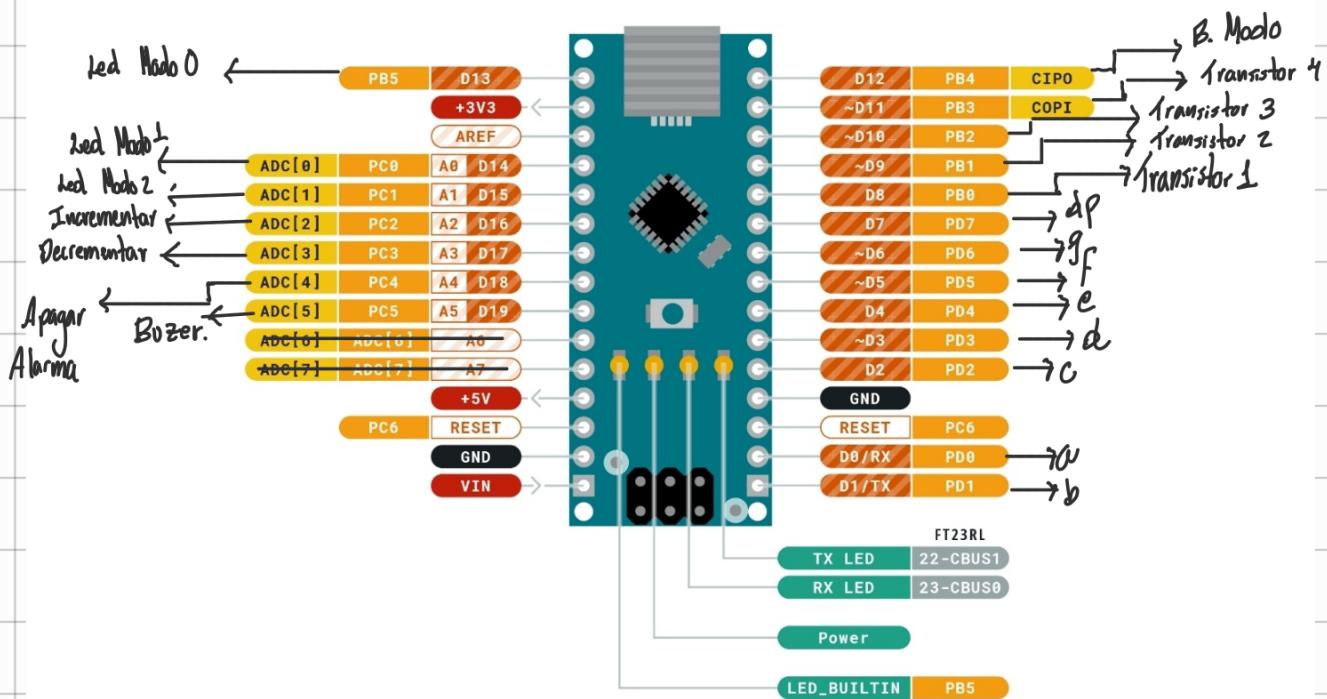
Elementos

Willy Cuellar 23182

Esquematico : -



ARDUINO  
NANO



■	Ground	■	Internal Pin	■	Digital Pin	■	Microcontroller's Port
■	Power	■	SWD Pin	■	Analog Pin	■	
■	LED	■	Other Pin	■	Default	■	

ARDUINO . CC



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## \* Calculos del Timer0.

$$\text{Prescaler} \geq \frac{t_{\text{delay}} * f_{\text{clk}}}{2^n} = \frac{2 * 10^{-3} * 16 * 10^6}{2^8} = 125$$

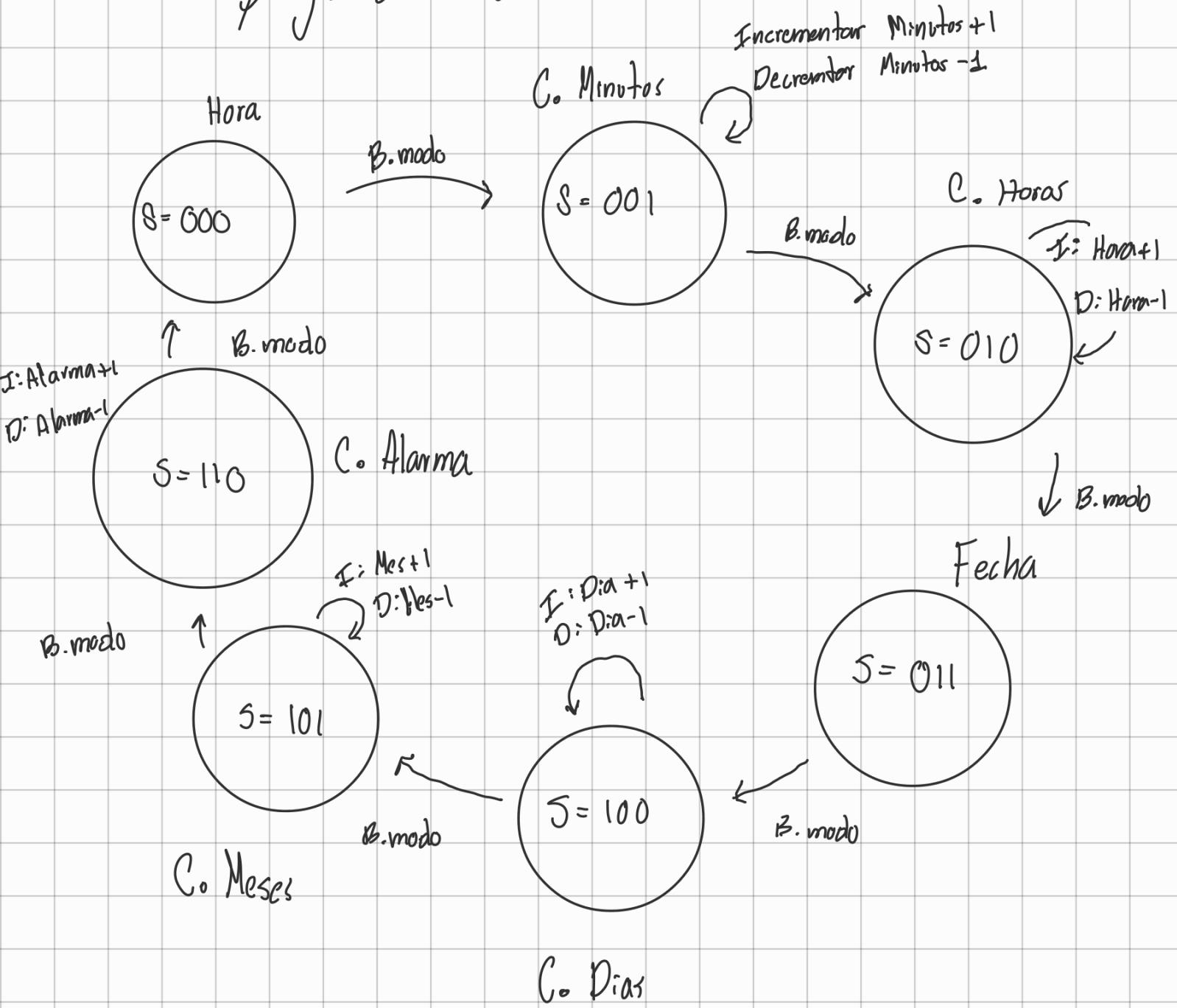
Usaremos 1024

$$T_{\text{max}} = \frac{2^8 * 1024}{16 * 10^6} = 0.016384 \text{ s} \quad 0.016384 \text{ ms}$$

$$\begin{aligned} \text{OCR0A} &= \frac{f_{\text{clk}} * t_{\text{descado}}}{\text{prescaler}} & \text{Usare } t = 2 \text{ ms} \\ &= \frac{16 \text{ M} (2 \text{ ms})}{1024} & \approx 30 \end{aligned}$$

$$\boxed{\text{OCR0A} = 30}$$

# \* Diagrama de estados



Anexos:

