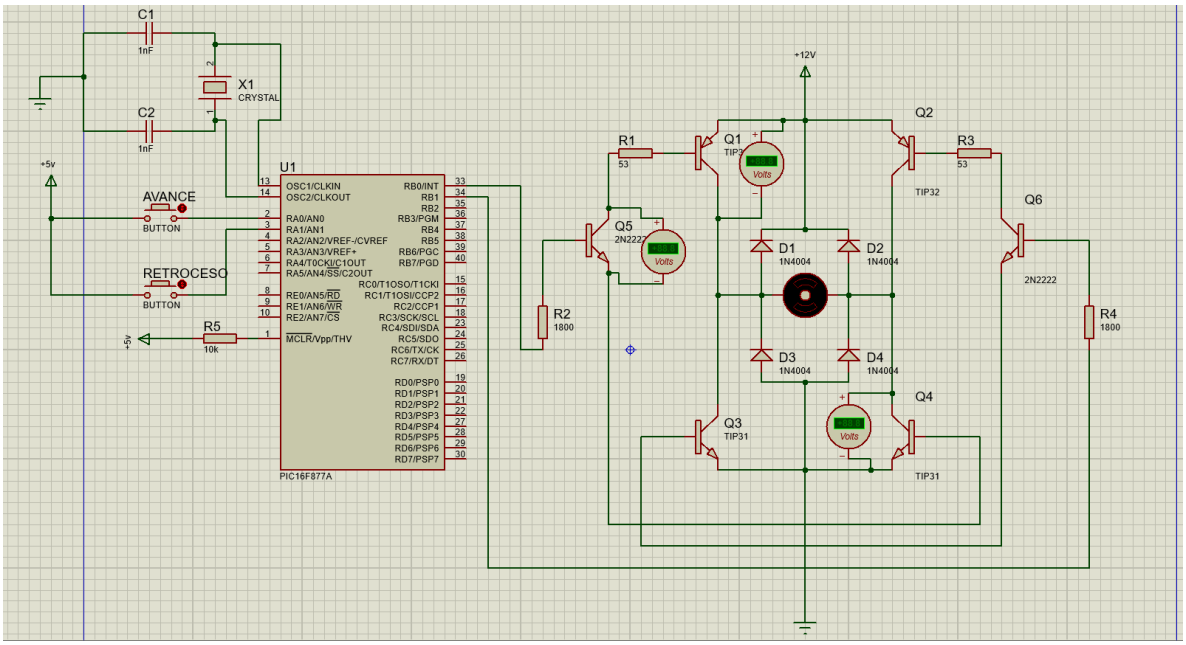
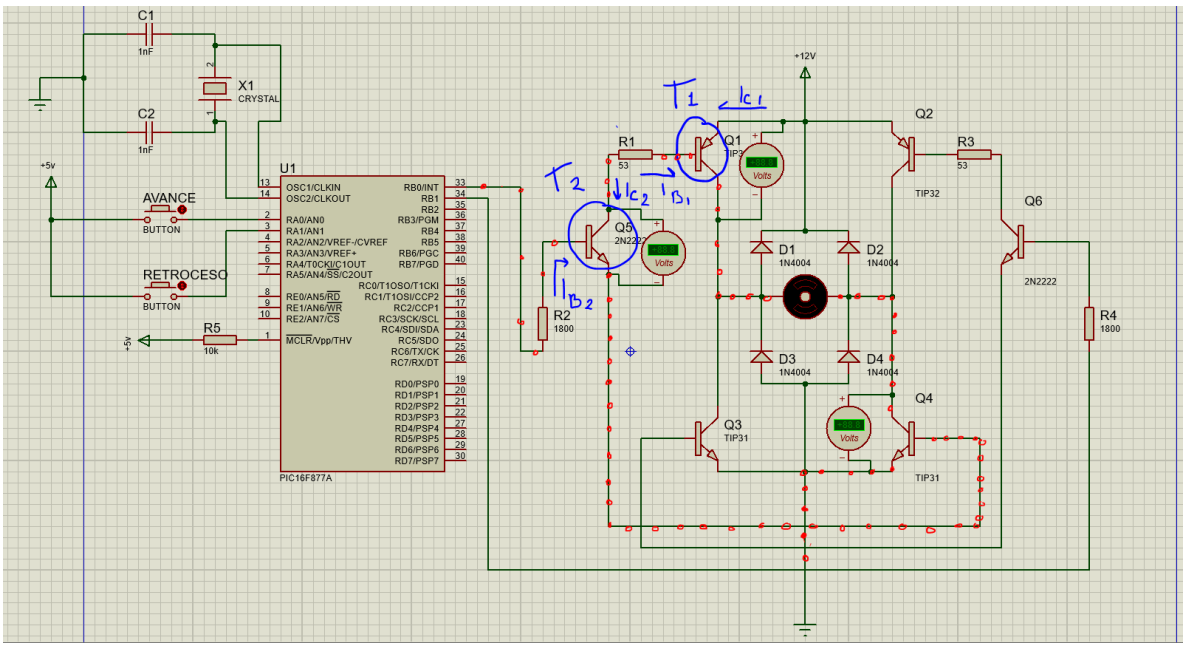
Vázquez Núñez Erick Francisco

Cálculos puente H



Cálculos:

Tomando en cuenta los datos de la siguiente imagen:



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$$\beta_{T_1} = 10$$

$$\beta_{T_2} = 100$$

$$Ic_1 = \beta_{T_1} \cdot I_{B_1}$$

$$I_{B_1} = \frac{Ic_1}{\beta_{T_1}}$$

$$I_{B_1} = \frac{1A}{10} = 0.1 \cdot 2 = 0.2$$

$$R_1 = \frac{(v_{CC} - v_{(sat)})}{I_{B1}}$$

$$R_1 = \frac{10 \cdot 6}{0.2}$$

$$R_1 = 53\Omega$$

$$I_{C_2} = \beta \cdot I_{B_2}$$

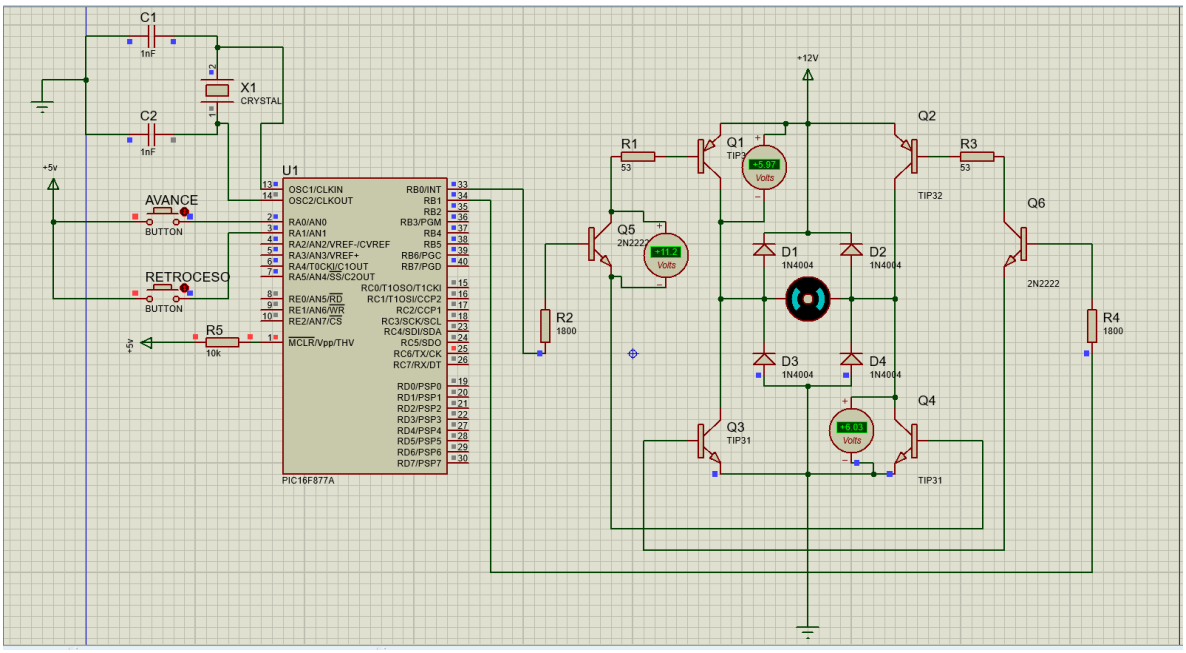
$$R_2 = \frac{(5 - 1.4) \cdot 100}{I_{C_2}}$$

$$Ic_2 = I_{B_1} = \frac{1}{10} = 0.1 \cdot 2 = 0.2$$

$$R_2 = \frac{(5 - 1.4) \cdot 100}{0.2}$$

$$R_2 = 1800\Omega = 1.8k\Omega$$

Circuito con transistores Sin saturar:



Circuito con transistores saturados

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