

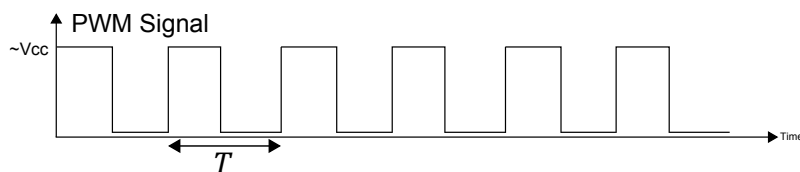
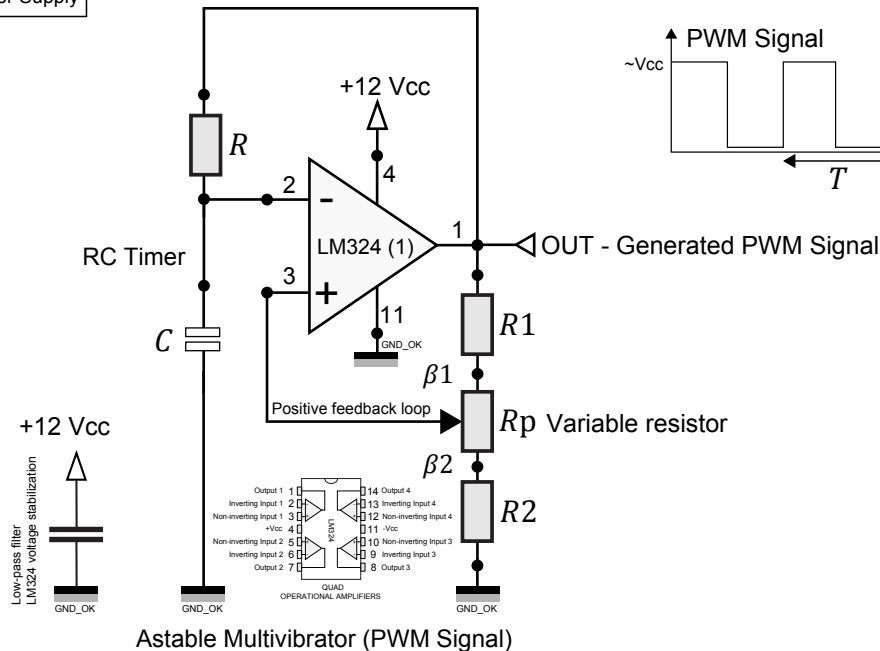
SERPENT I - Astable Multivibrator

DC Motor Driver: H-Bridge IRF3710

DC Motor Driver code-name: SERPENT I

SERPENT I test circuit with astable multivibrator (PWM signal)

hardware and software solutions
dream your robots



$$\beta_1 = \frac{R_2 + R_p}{R_1 + R_2 + R_p}$$

$$\beta_2 = \frac{R_2}{R_1 + R_p + R_2}$$

$$T_1 = 2 * R * C * \ln\left(\frac{1 + \beta_1}{1 - \beta_1}\right)$$

$$T_2 = 2 * R * C * \ln\left(\frac{1 + \beta_2}{1 - \beta_2}\right)$$

$$f_1 = \frac{1}{T_1} \quad f_2 = \frac{1}{T_2}$$

Bidirectional rotation

f - PWM frequency
 T - Time period

