

# Robotics II

## Final Project

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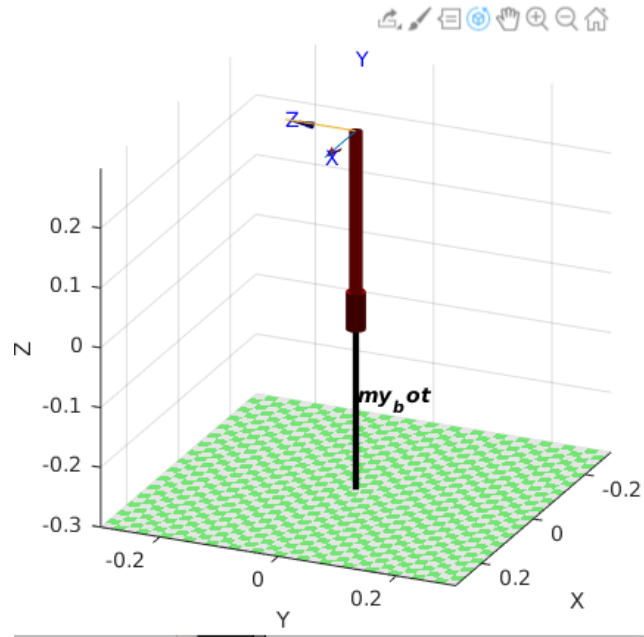
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# 1 Denavit-Hartenberg

	$\alpha$	a	d	$\theta$
link 1	$\pi/2$	0	$L_1 = 0.3$	$q_1$
link 2	0	$L_2 = 0.3$	$d_2 = -0.09$	$q_2$
link 3	0	$L_3 = 0.2$	0	$q_3$

Frame 1



Frame 2

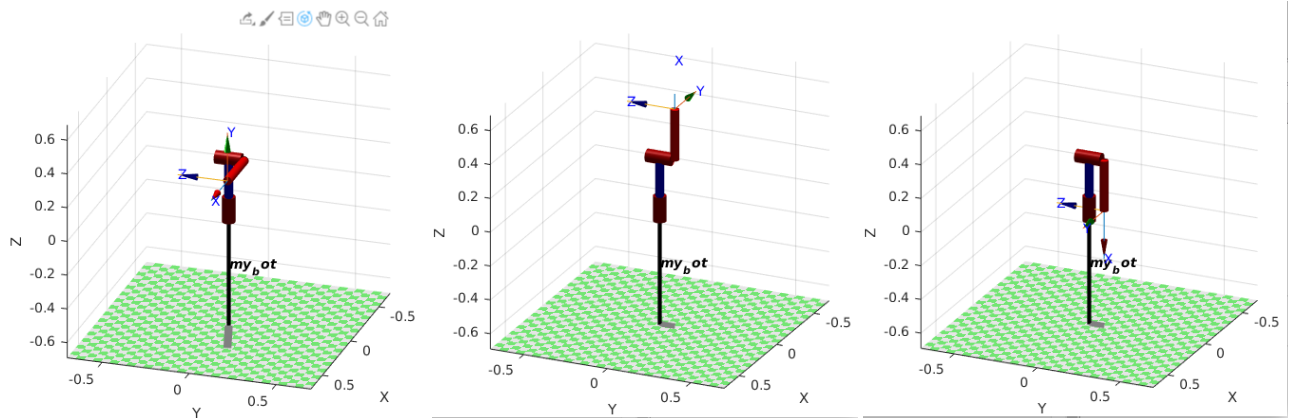


Figure 1: (a)  $q_2 = 0$ ; (b)  $q_2 = 90$  deg; (c)  $q_2 = -90$  deg

Frame 3

## 2 Centers of Mass

asdfg

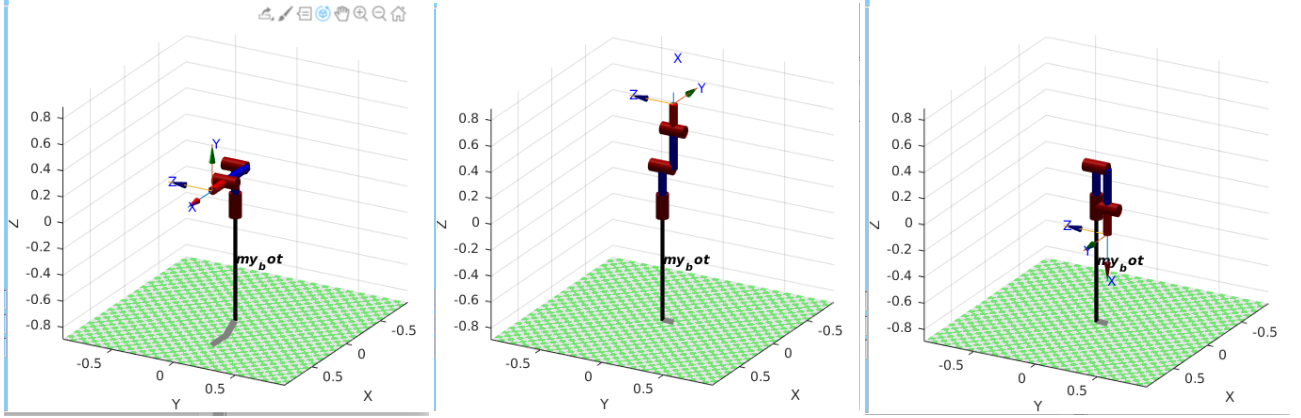


Figure 2: (a)  $q_2 = 0, q_3 = 0$ ; (b)  $q_2 = 90 \text{ deg}, q_3 = 0$ ; (c)  $q_2 = -90 \text{ deg}, q_3 = 0$

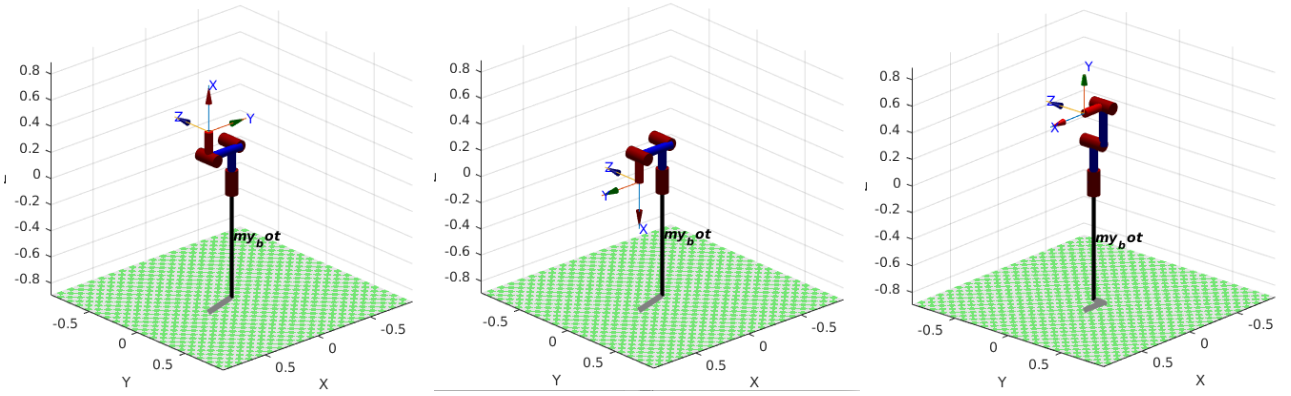


Figure 3: (a)  $q_2 = 0, q_3 = 90 \text{ deg}$ ; (b)  $q_2 = 0 \text{ deg}, q_3 = -90 \text{ deg}$ ; (c)  $q_2 = 90 \text{ deg}, q_3 = -90 \text{ deg}$