Introduction to Robotics Assignment 2

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Solution 1

Now, ques:
$$V = \begin{bmatrix} 10 \\ 10 \end{bmatrix}$$
; $d_3 = 10$; $l_2 = 2$; $E_1 = \begin{bmatrix} 10 \\ 10 \end{bmatrix}$.

$$2J_{2} \text{ got}, \quad J^{2} = \frac{5}{J_{2}} - \frac{5}{3} - \frac{5}{3}/\frac{5}{2} - \frac{5}{3}/\frac{5}{2$$

$$Jq' = \mathcal{E}_1 = J \left[\begin{array}{c} O_1 \\ O_2 \\ d_3 \end{array} \right] = \left[\begin{array}{c} 10 \\ 10 \\ \omega \end{array} \right]$$

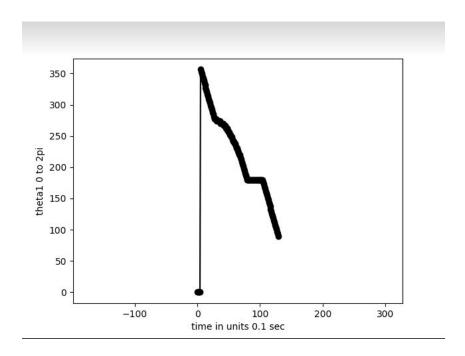
Team O, O, 3, we obtain.

$$d_3' = -5.39.$$

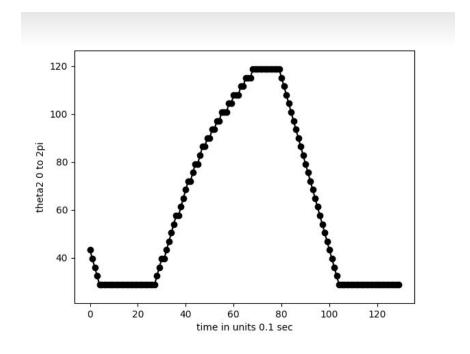
Solution 2

The required code has been attached as "Q2.py". The required [plots are as follows:

For Angle 1, (first junction):



For Angle 2, (Junction between a1 and a2):



Solution 3

An obtained constant acceleration path for the given setup is as follows:

