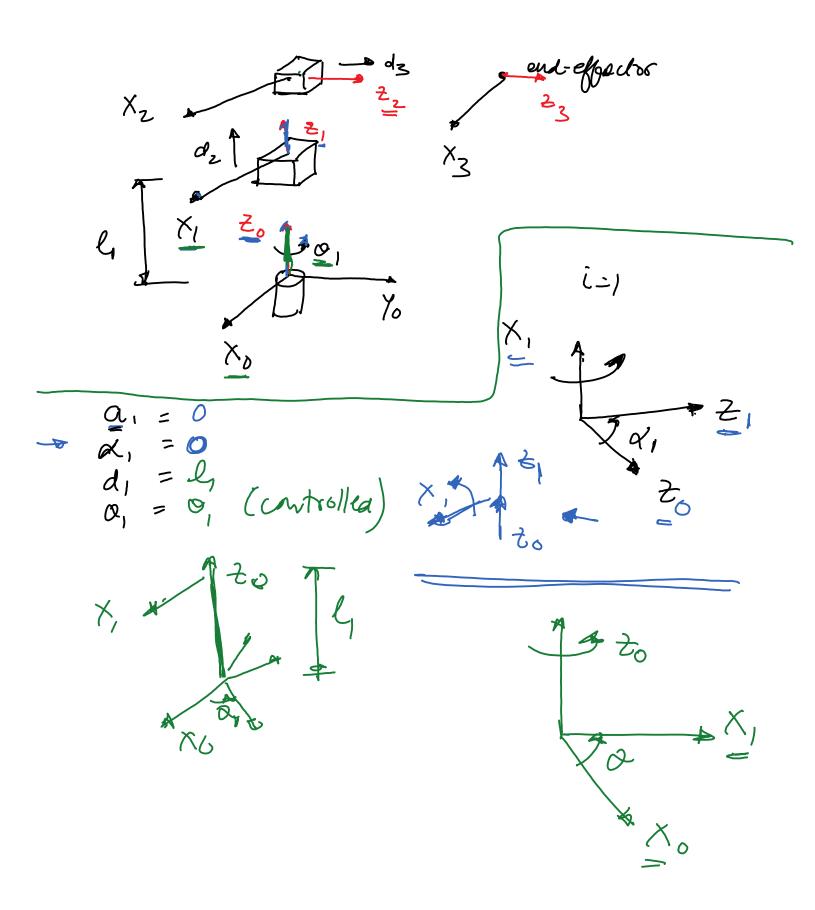
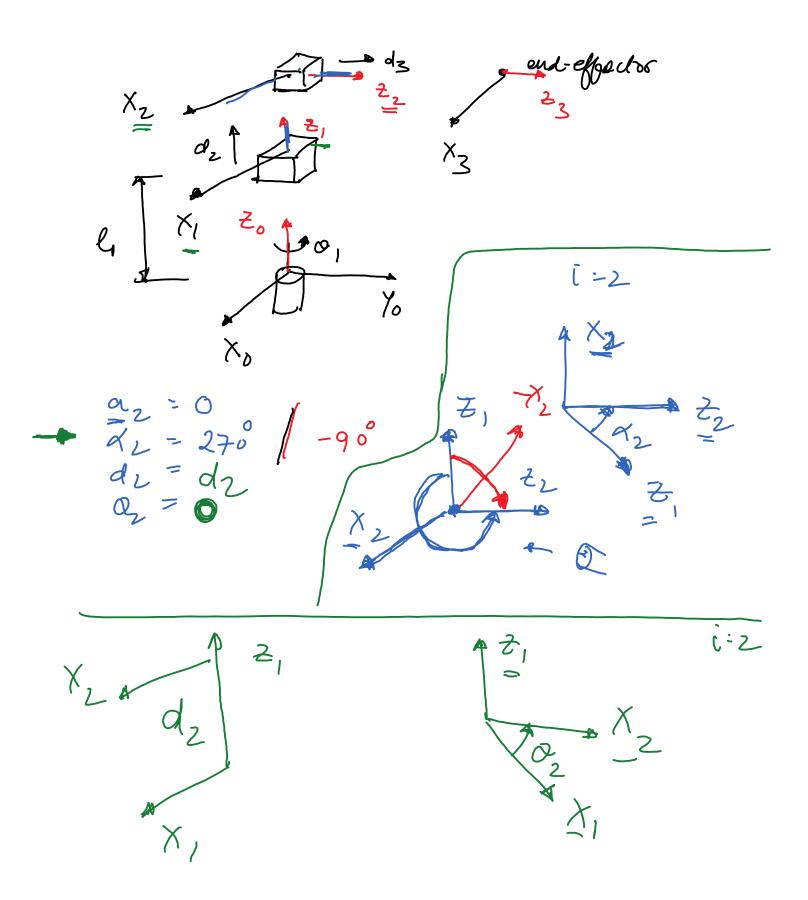
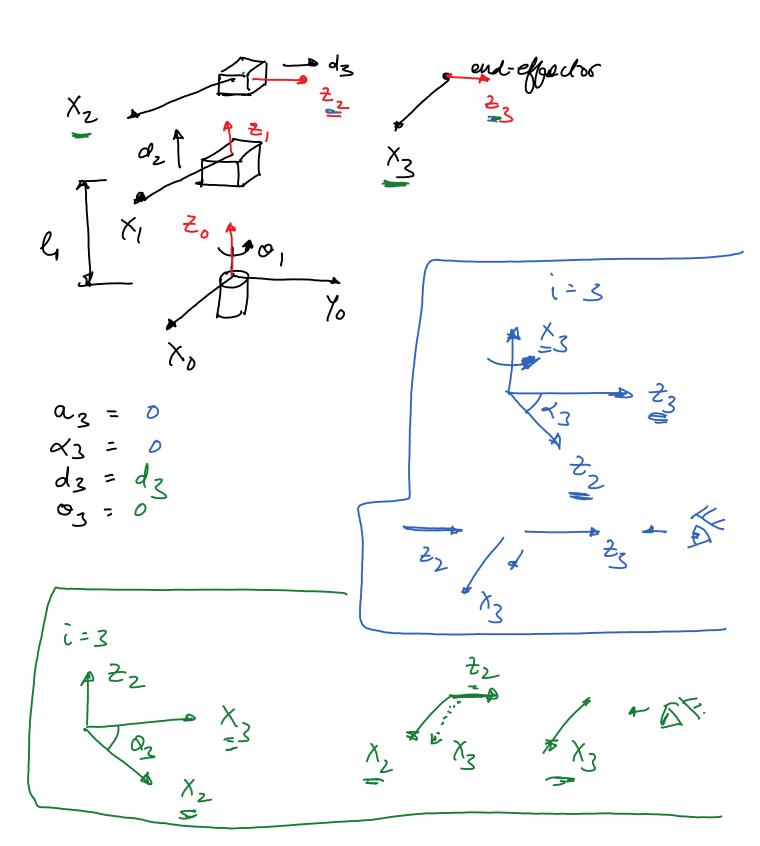


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μ' μ^2 μ^3
$\frac{H_0}{i=1}, \frac{H_2^2}{i=2}$
$H_3^0 = 11, H_3^1 H_3^2 = \begin{bmatrix} G_1 & O_1 & -S_2 & -S_3 & -S_3 & G_3 \\ S_1 & O_1 & G_2 & G_3 \\ O_1 & O_2 & G_3 & G_4 & G_5 \end{bmatrix}$
$ S_1 \circ C_1 \cap C_1 $
$\begin{pmatrix} 0 & 7 & 0 & l_1 + d_2 \end{pmatrix}$
·
Position of end-effector: $\begin{bmatrix} -s, d_s \\ c_i d_3 \\ l_i + d_2 \end{bmatrix}$
Gd_3
$L l_1 + d_2 J$
- Objectation of end-effector = [c. 0 -s.]
$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 0 + 0 \end{bmatrix}$
Of ientation of end-effector = $\begin{bmatrix} C_1 & d_3 \\ l_1 + d_2 \end{bmatrix}$ $C_1 = \begin{bmatrix} C_1 & 0 & -S_1 \\ S_1 & 0 & C_2 \\ 0 & -1 & 0 \end{bmatrix}$ $C_2 = \begin{bmatrix} C_1 & 0 & -S_2 \\ S_1 & 0 & C_2 \\ 0 & -1 & 0 \end{bmatrix}$ $C_3 = \begin{bmatrix} C_1 & 0 & -S_2 \\ 0 & -1 & 0 \\ 0 & -1 & 0 \end{bmatrix}$ $C_4 = \begin{bmatrix} C_1 & 0 & -S_2 \\ 0 & -1 & 0 \\ 0 & -1 & 0 \\ 0 & -1 & 0 \end{bmatrix}$ $C_4 = \begin{bmatrix} C_1 & 0 & -S_2 \\ 0 & -1 & 0 \\ $
3-2-1
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