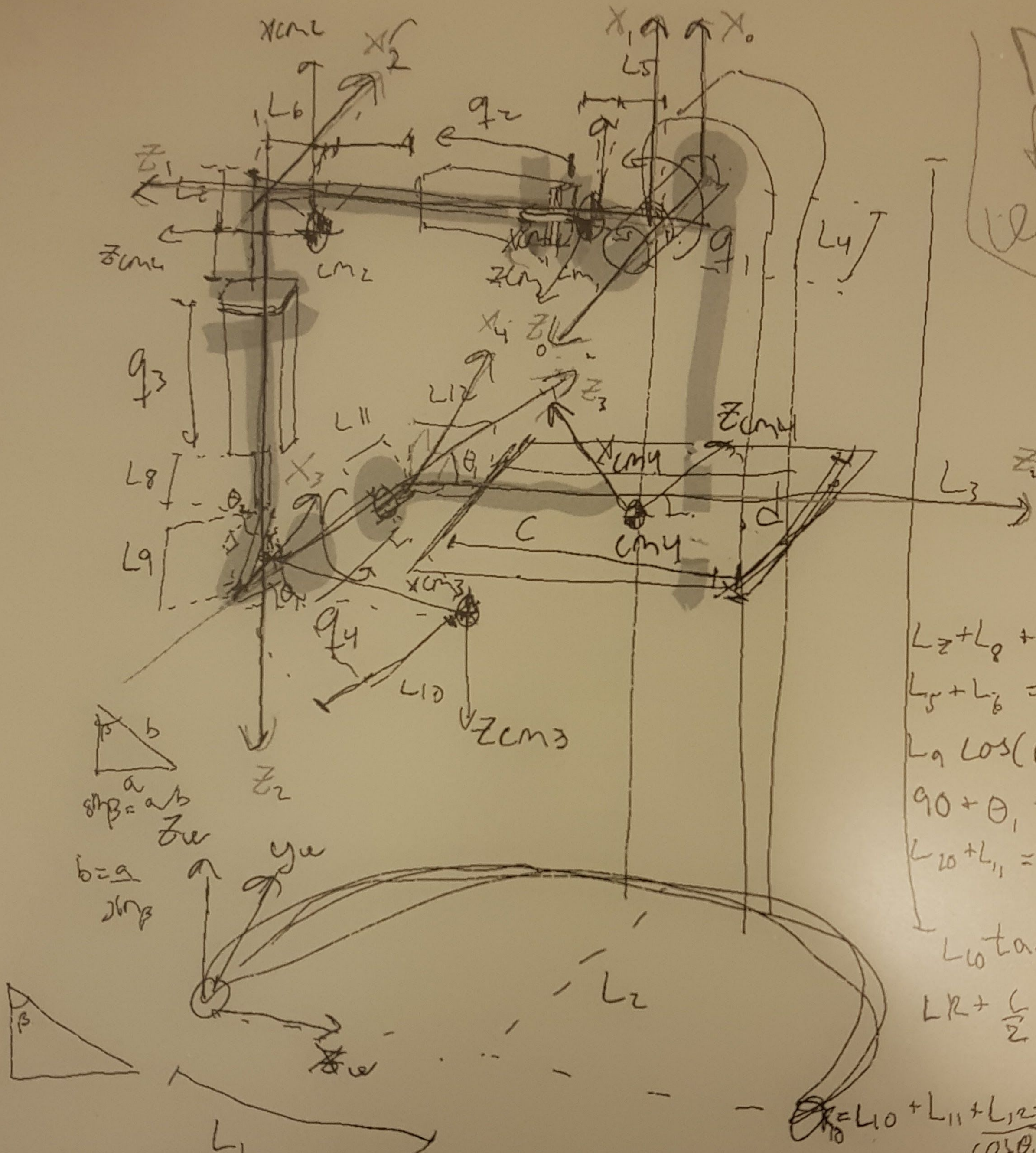
Due to wednesday



$L_7 + L_8 + L_9 \sin(\theta_2) = L_{d3}$ K_2

$L_5 + L_6 = L_{d2}$ K_1

$L_9 \cos(\theta_2) = L_{a3}$ K_3

$90 + \theta_1 = \theta_{\alpha 3}$ K_4

$L_{10} + L_{11} = L_{d4}$ K_5

$L_{10} \tan(\theta_1) = L_{cm3x}$ K_6

$L12 + \frac{C}{2} = L_{cm4d}$ K_7

$K_{10} = L_{10} + L_{11} + \frac{L_{12} + C/2}{\cos\theta_1}$ $K_{11} = \frac{L_{12} + C/2}{\sin\theta_1}$

	θ	d	a	α
1	q_1	L_4	0	-90
2	90	$q_2 + K_1$	0	-90
3	0	$q_3 + K_2$	$-K_3$	$-K_4$
4	q_4	K_5	0	θ_1

	θ	d	a	α
cm1	$90 + q_1$	L_4	$L_5/2$	0
cm2	0	$q_2 + K_1$	$L_7/2$	0
cm3	$-K_8$	$q_3 + K_2$	$-K_9$	0
cm4	$90 + q_4$	K_{10}	$-K_{11}$	0

$\theta_{cm3} = -\tan^{-1}\left(\frac{L_{10}}{\cos\theta_1} \Big/ (L_9 \cos\theta_2) \right) = -K_8$ | $d_{cm3} = \frac{L_{10}}{\cos\theta_1} \Big/ (\sin(K_8)) = K_9$