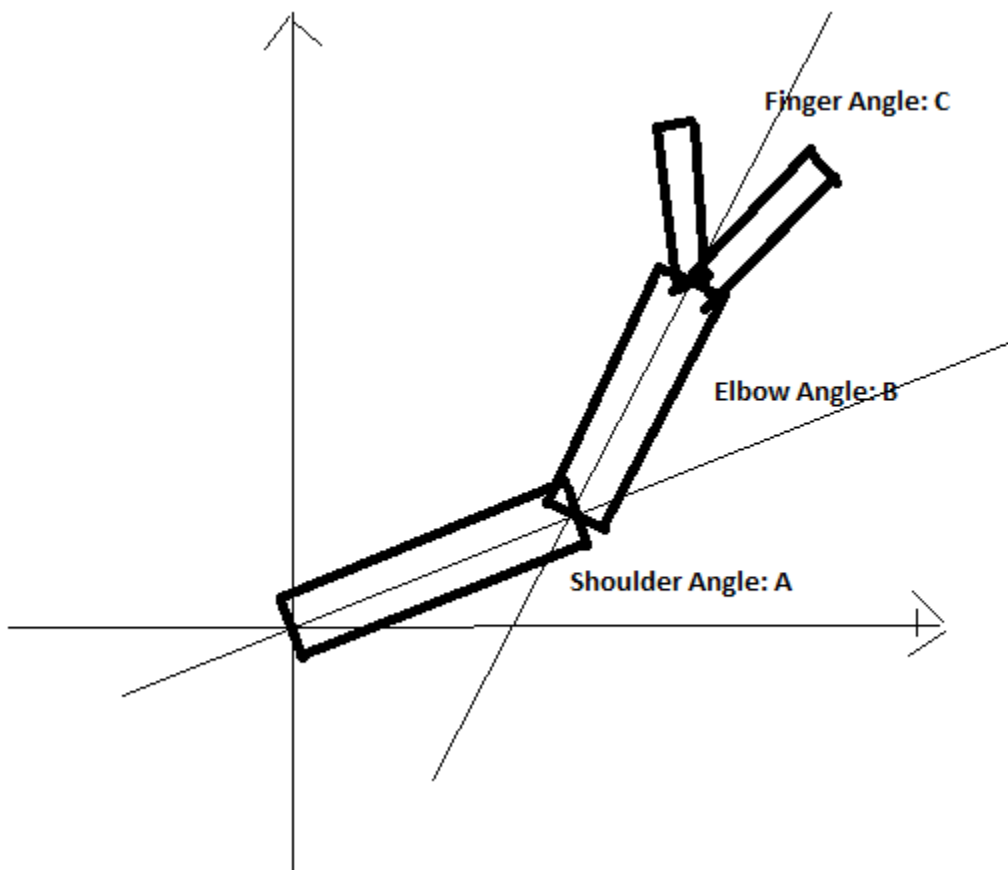


Homework: Transformation

We have a unit cube (side size = 1) in the model coordinates centered at the original.

We are going to draw the following simple robot, with a front arm, a lower arm, and two fingers, which are all transformed from the unit cube.



As in this picture, the upper arm and lower arm sizes are $2 \times 0.4 \times 0.4$.

Finger size is $1 \times 0.2 \times 0.2$

We only consider about the rotation around z-axis. Upper arm rotated an angle A. Lower arm rotated an angle B related upper arm. The fingers open an angle C.

Your work is to figure out how to calculate the transformation matrices for the two arms and two fingers.

Write a report and submit to canvas.