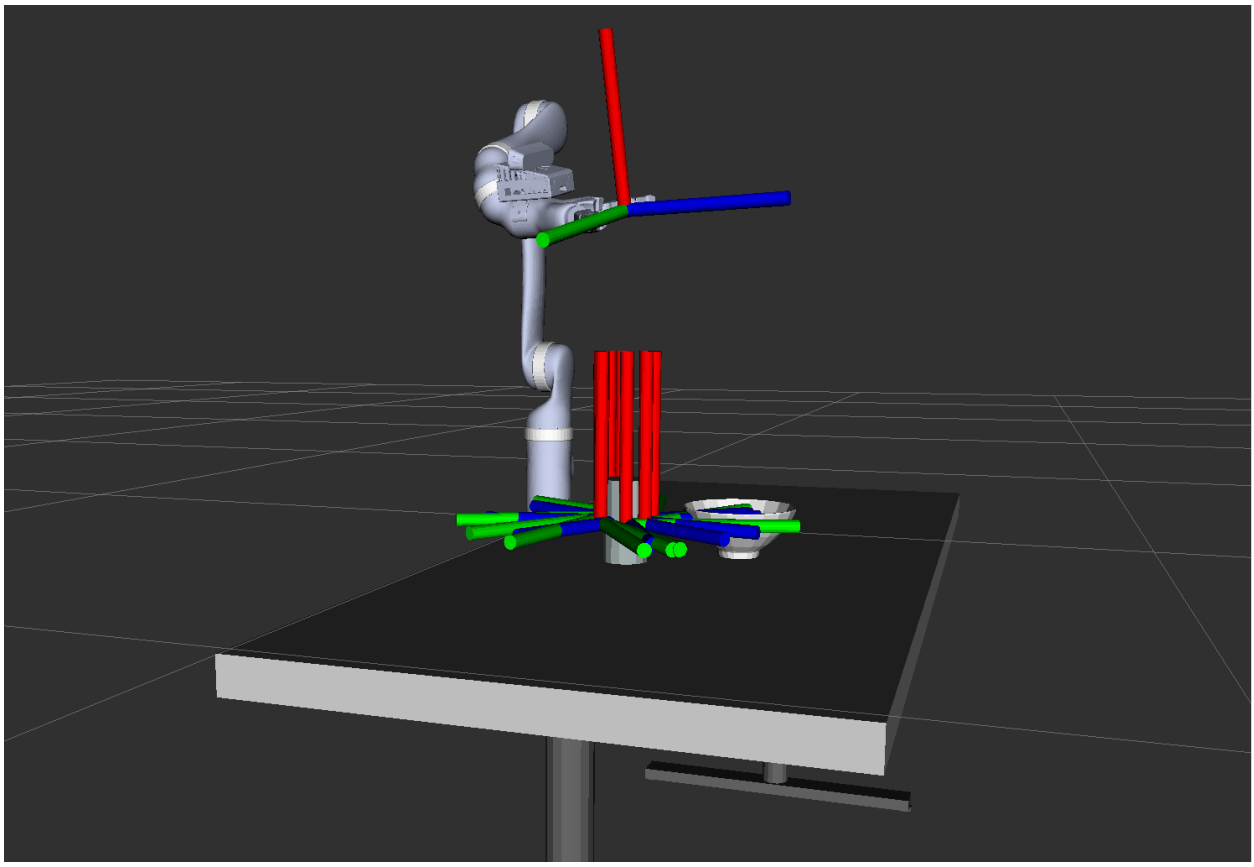
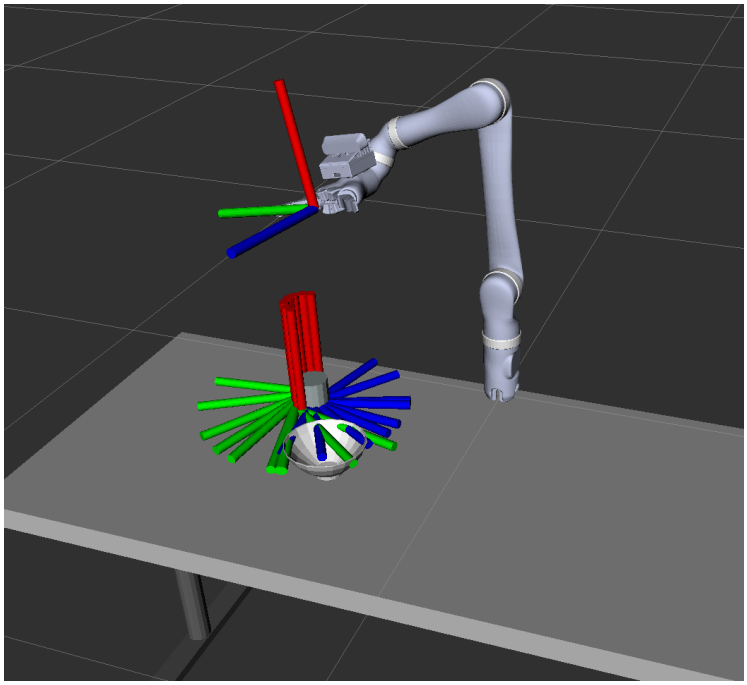
CS545 Lab3 Report Group 6

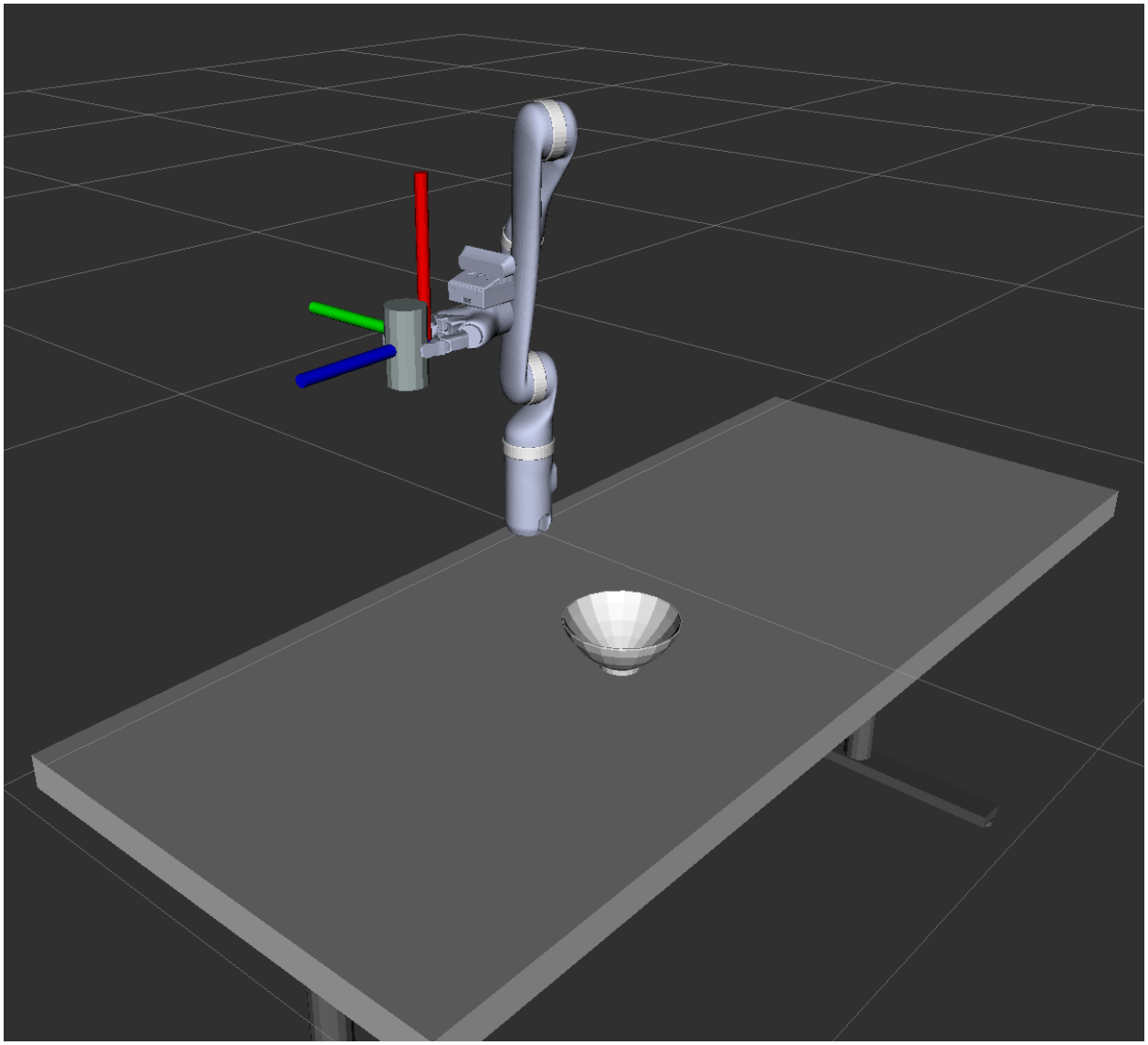
2. tsr_vis_1.png



3. tsr_vis_2.png



6. jac_vis_1.png
$\Delta x = [0, 0, 0, -0.5, 0, 0]$



No, the final pose of the can is not accurate. The final position deviates from the target position which is exactly 0.5 m above its starting pose. Because the step size of 0.5 is too large, moving upward by 0.5 is based on the end effector, and there will actually be a large error in the operation of the machine. Because there can be errors in the force applied to each joint of the arm. We change the $\Delta x = [0, 0, 0, -0.5, 0, 0]$ to $\Delta x = [0, 0, 0, -0.004, 0, 0]$ and iteratively calculate 125 times to reach the target position.

7. $\Delta x = [0, 0, 0, -0.004, 0, 0]$, iter = 125