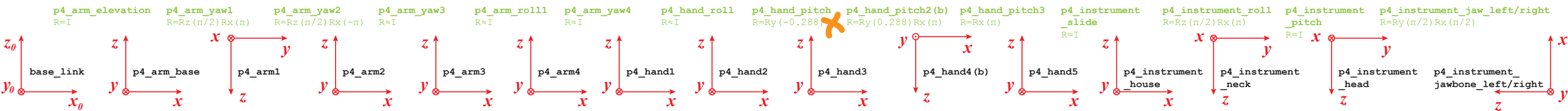
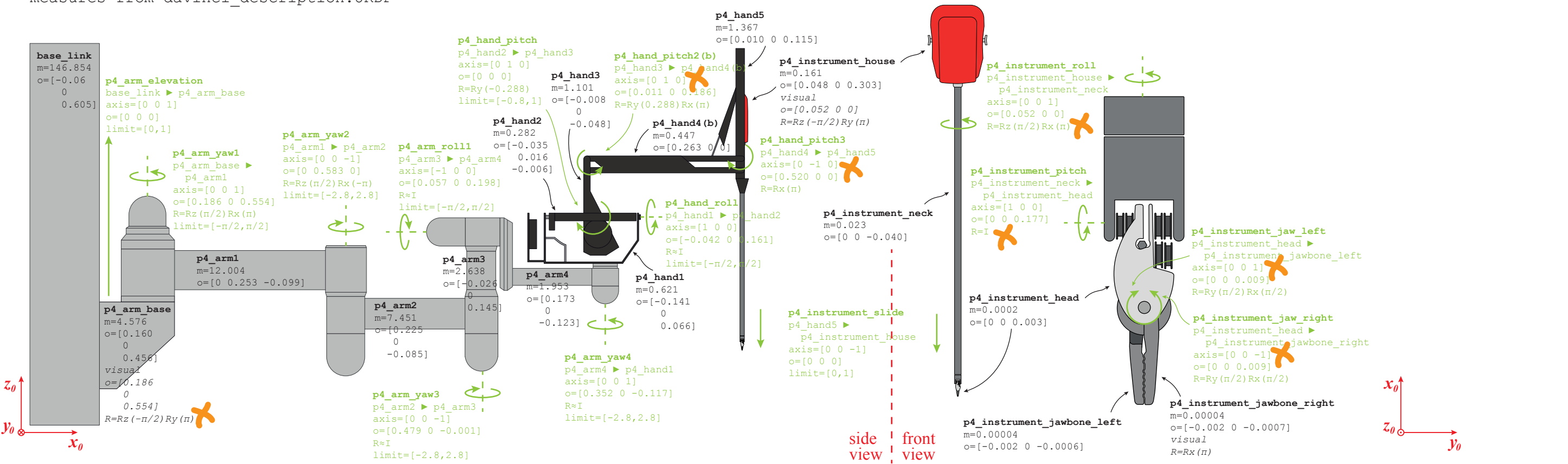
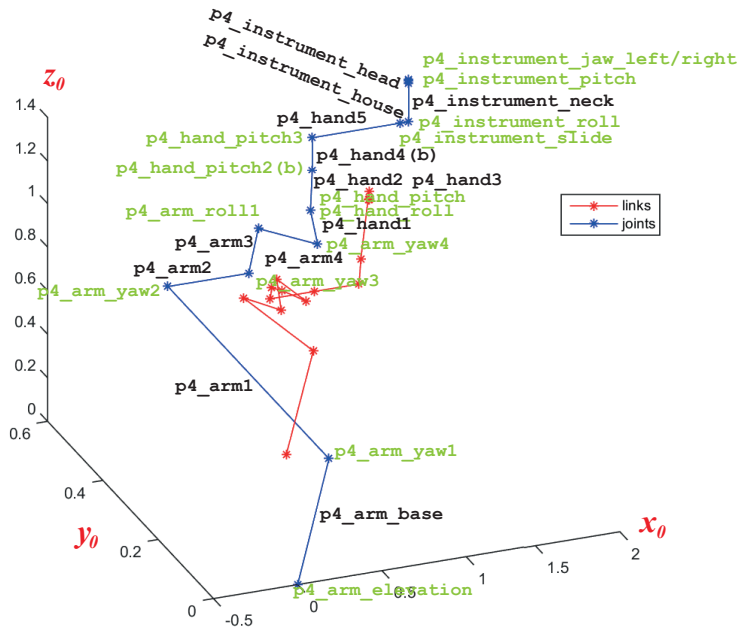


measures from davinci\_description.URDF



```
% Robot links
base_link = [-0.0675046389711765 8.91088155245749E-05 0.605417822180421]';
p4_arm_base = [0.160243136797189 2.85409670446341E-08 0.45614987345607]';
p4_arm1 = [4.61971513685182E-07 0.252962848969993 -0.0998729966694851]';
p4_arm2 = [0.224760417587176 8.48400769093145E-07 -0.0850912705183845]';
p4_arm3 = [-0.0267512630921443 -1.93250659384755E-09 0.145900313046248]';
p4_arm4 = [0.173920536091799 -3.18908971983827E-08 -0.123558701456668]';
p4_hand1 = [-0.141020957350944 1.21214233081955E-17 0.0663841857186647]';
p4_hand2 = [-0.034905365724315 0.0169015146796576 -0.00639701999425513]';
p4_hand3 = [-0.00847368219377387 1.24148413866933E-18 -0.0484521850605982]';
p4_hand4 = [0.263815032211533 4.68378885044887E-17 5.85864690094695E-13]';
p4_hand4b = [0.263815032211533 4.68378885044887E-17 5.85864690094695E-13]';
p4_hand5 = [0.010300033112455 -5.64698404664002E-08 0.115001494794893]';
p4_instrument_house = [0.0487926923825119 1.2425463059237E-09 0.303878514609369]';
p4_instrument_neck = [1.88981532714125E-09 3.16376702613752E-10 -0.0401302981872702]';
p4_instrument_head = [2.82477802579071E-06 -3.6037163499536E-05 0.00301833175193345]';
p4_instrument_jawbone_left = [-0.00211142946935594 0.000167266219560752 -0.000657389690164489]';
p4_instrument_jawbone_right = [-0.00211142946935583 0.000167266219581923 -0.000749389690795965]';
links = [base_link p4_arm_base p4_arm1 p4_arm2 p4_arm3 p4_arm4 p4_hand1 p4_hand2 p4_hand3 ...
p4_hand4 p4_hand4b p4_hand5 p4_instrument_house p4_instrument_neck p4_instrument_head ...
p4_instrument_jawbone_left p4_instrument_jawbone_right];
```



```
% Robot joints
p4_arm_elevation = [0 0 0]';
p4_arm_yaw1 = [0.186 0 0.5544]';
p4_arm_yaw2 = [0 0.58285 0]';
p4_arm_yaw3 = [0.47985 0 -0.001]';
p4_arm_roll1 = [0.0569999999999999 0 0.19825]';
p4_arm_yaw4 = [0.35225 0 -0.117]';
p4_hand_roll = [-0.0424999999999998 0 0.160999999999999]';
p4_hand_pitch = [0 0 0]';
p4_hand_pitch2 = [0.0108229214977171 0 0.186426149539229]';
p4_hand_pitch2b = [0 0 0.15]';
p4_hand_pitch3 = [0.52 0 0]';
p4_instrument_slide = [0 0 0]';
p4_instrument_roll = [0.0525000000003168 0 0]';
p4_instrument_pitch = [0 0 0.177]';
p4_instrument_jaw_left = [0 0 0.009000000000000001]';
p4_instrument_jaw_right = [0 0 0.009000000000000001]';
joints = [p4_arm_elevation p4_arm_yaw1 p4_arm_yaw2 p4_arm_yaw3 p4_arm_roll1 p4_arm_yaw4 ...
p4_hand_roll p4_hand_pitch p4_hand_pitch2 p4_hand_pitch2b p4_hand_pitch3 ...
p4_instrument_slide p4_instrument_roll p4_instrument_pitch ...
p4_instrument_jaw_left p4_instrument_jaw_right];
```