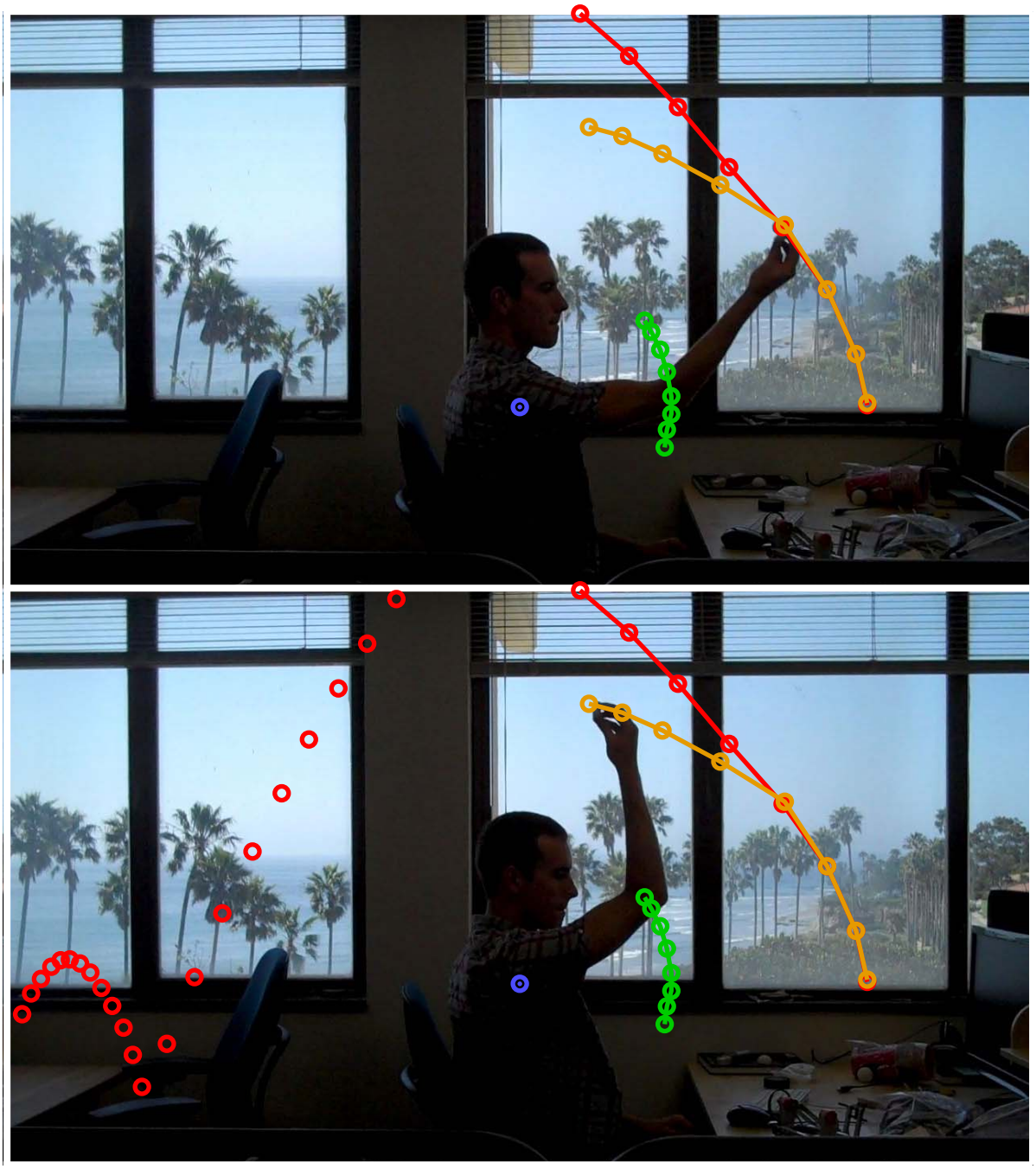
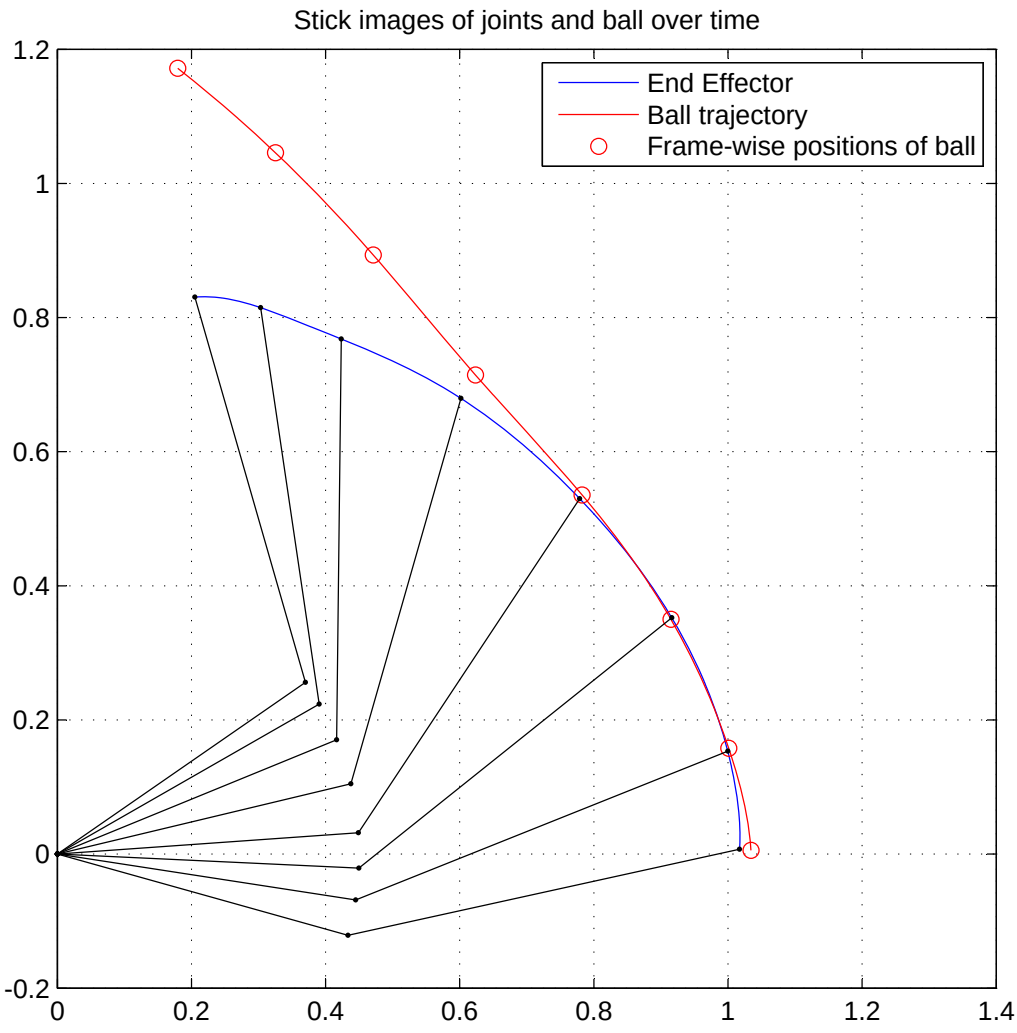
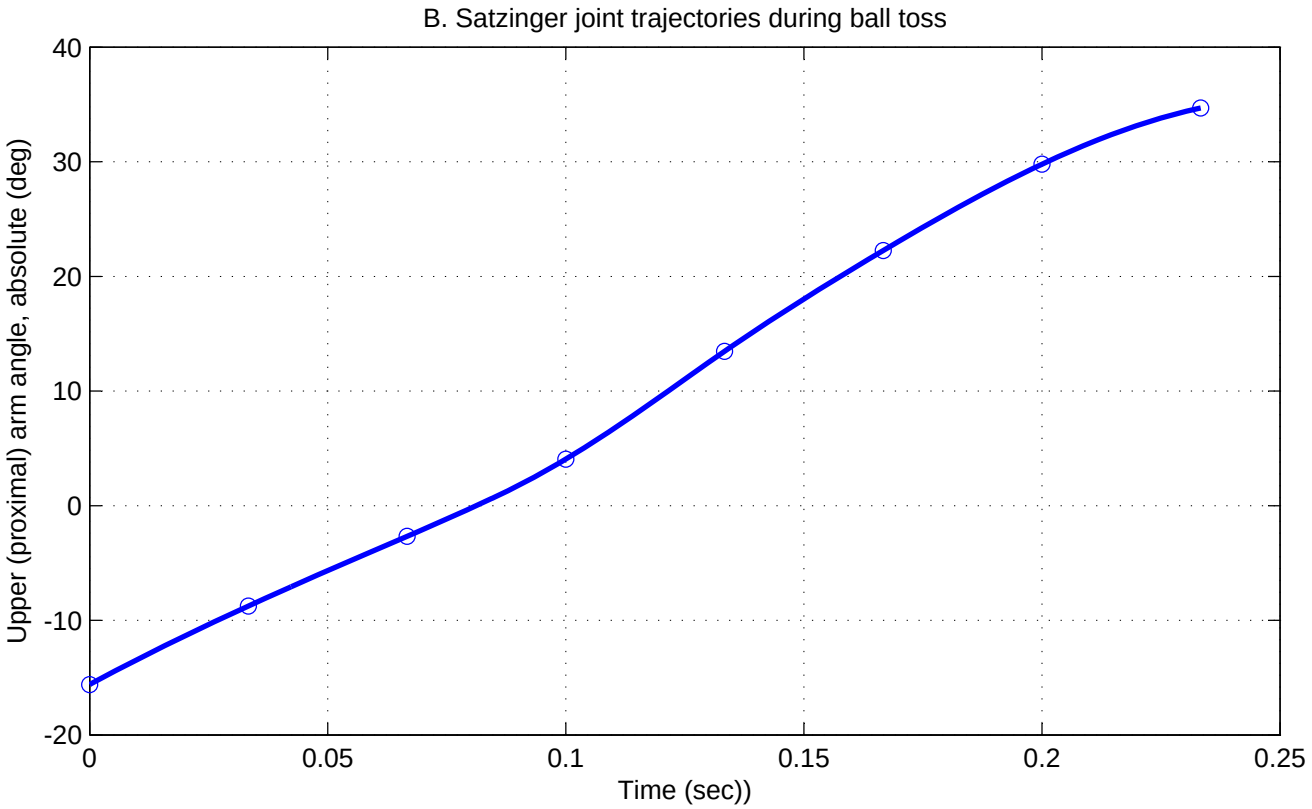
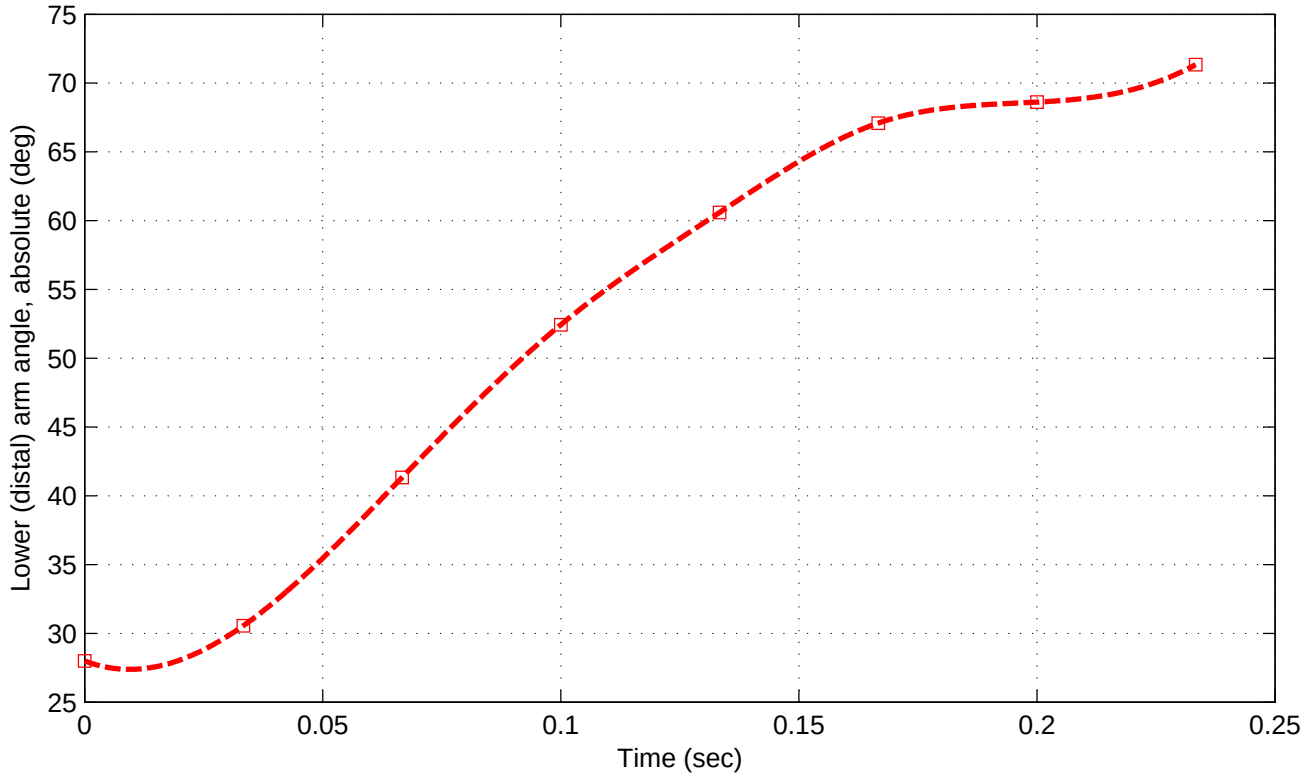



Stick images of joints and ball over time
End Effector
Ball trajectory
Frame-wise positions of ball
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


B. Satzinger joint trajectories during ball toss
Upper (proximal) arm angle, absolute (deg)
40
30
20
10
0
-10
-20
0
0.05
0.1
0.15
0.2
0.25
Time (sec))


Lower (distal) arm angle, absolute (deg)
75
70
65
60
55
50
45
40
35
30
25
0
0.05
0.1
0.15
0.2
0.25
Time (sec)