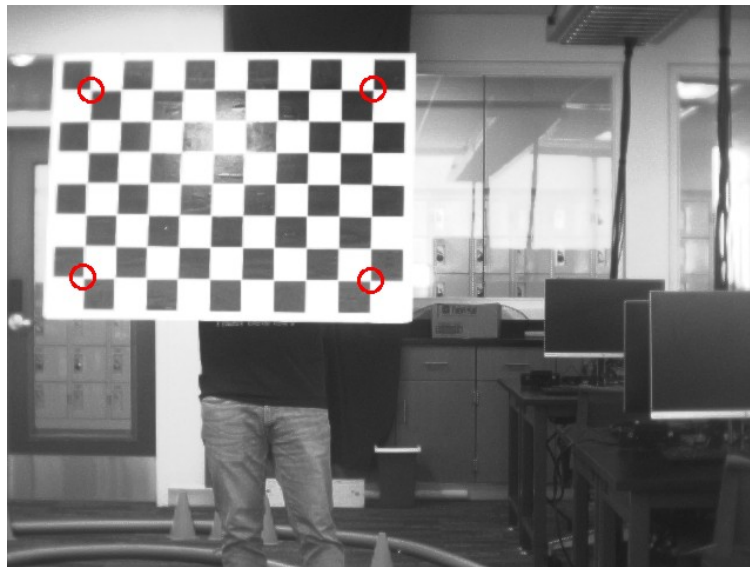
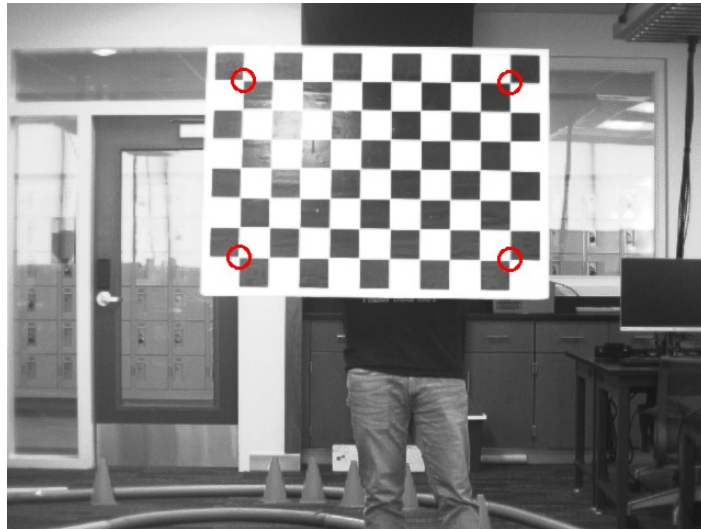


Task 1 – 3D Measurement



3D Points (Left):

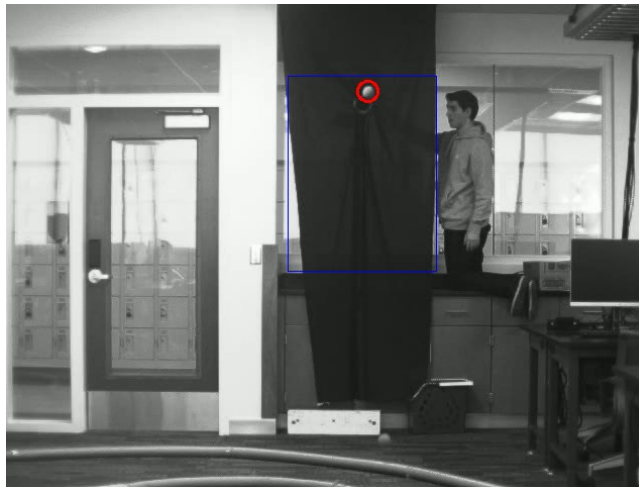
| | | |
|----------------|-------------|----------------|
| [[-39.33149551 | -21.1752864 | 246.06981279] |
| [-4.38294564 | -20.9110623 | 248.59067383] |
| [-39.15833264 | 1.98685894 | 242.36382857] |
| [-4.35128465 | 2.2281351 | 245.49180282]] |

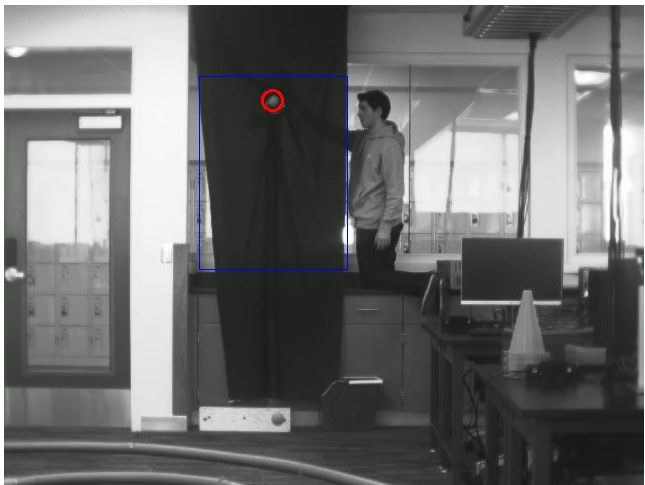
3D Points (Right):

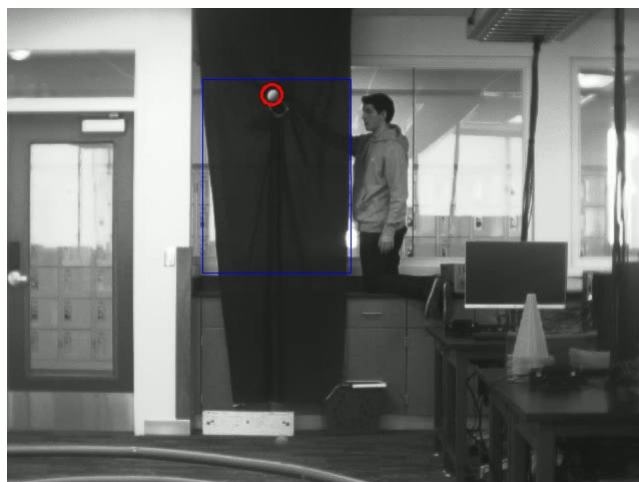
| | | |
|----------------|--------------|----------------|
| [[-59.78876289 | -21.1759346 | 246.06981279] |
| [-24.84021195 | -20.97424172 | 248.59067383] |
| [-59.61560001 | 1.99964883 | 242.36382857] |
| [-24.80855095 | 2.2308891 | 245.49180282]] |

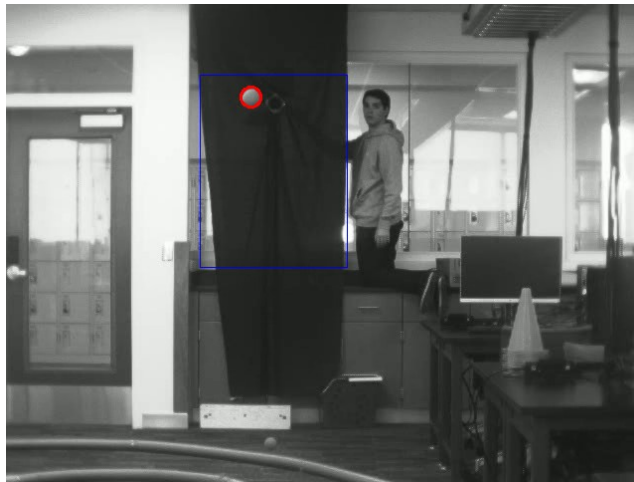
These points look mostly correct, since the difference in X between points 0 and 1 for each is about 35", which is in the ballpark of the actual measurement between upper left and upper right points of the chessboard. The Z measurements look about right, reflecting the tilt of the board in the pictures. Y looks correct as well, since the optical center is slightly above the bottom two points. However, the X=0 datum seems to be too far to the right of the image, far away from the optical center of the image. I can't figure out what went wrong, and have tried recalibrating the stereo setup with no luck.

Task 2 – Baseball Tracking

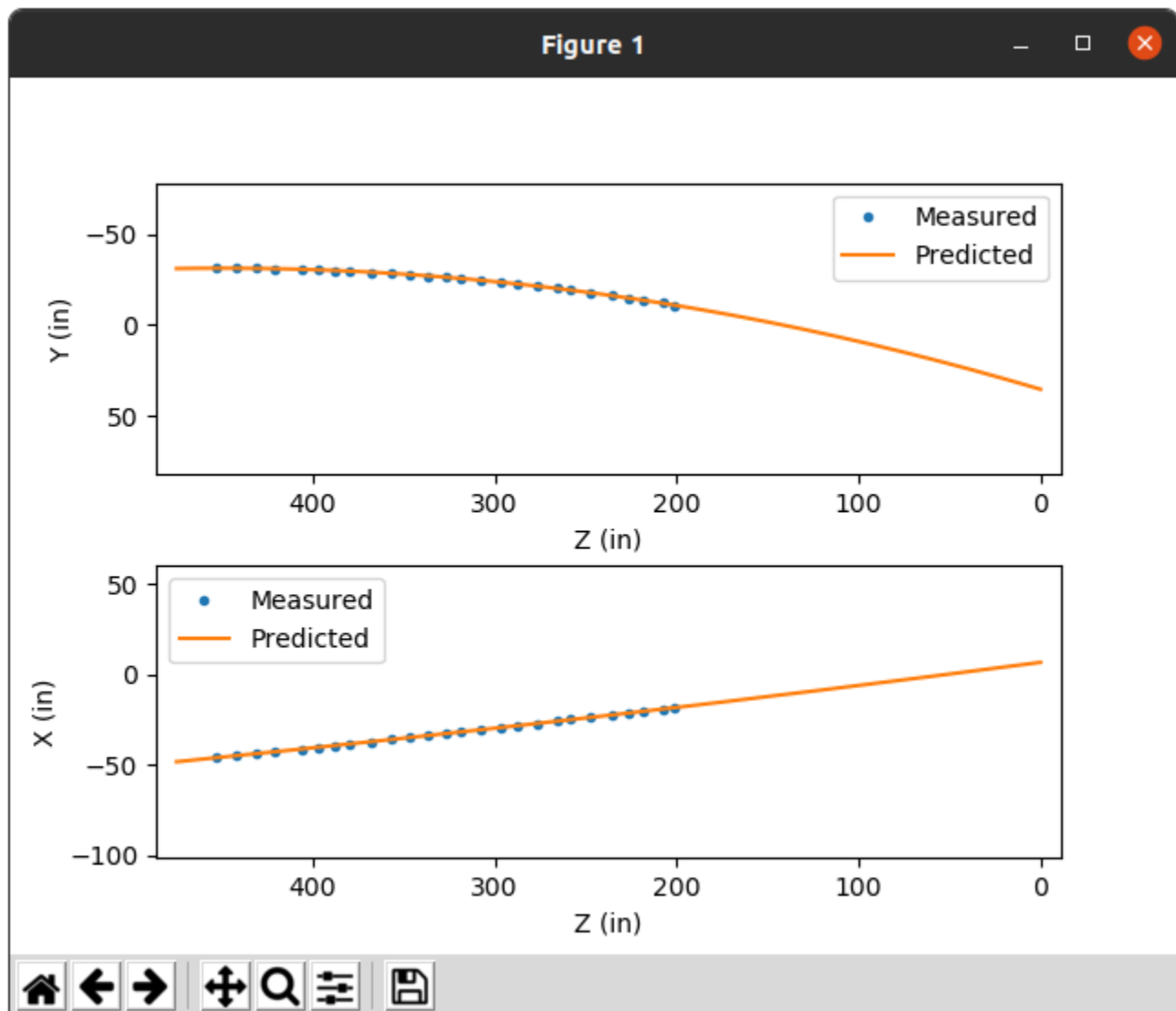








Task 3 – Trajectory Estimation



It looks like the coordinate frame for my left camera is skewed off to the right, which explains all the weirdness I was seeing in task 1.