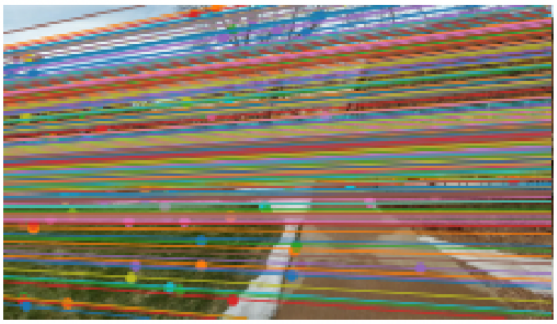
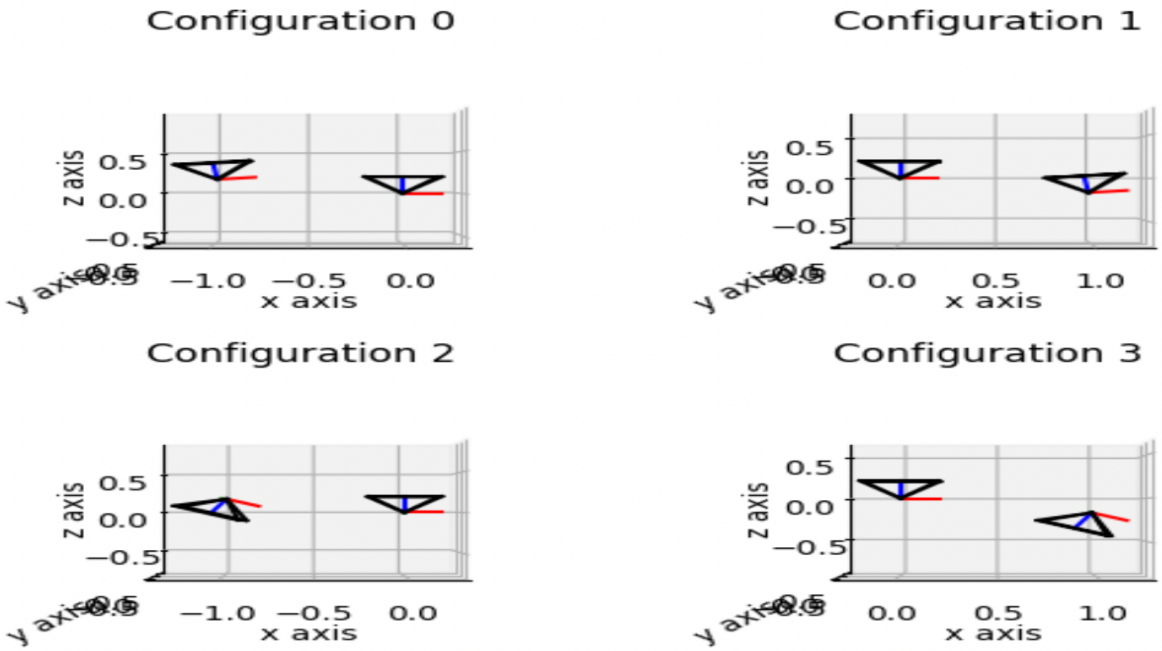
CSCI 5561 (Computer Vision)
Homework 5 Summary

Name: Sai Pratyusha Attanti
Email: attan005@umn.edu
Student ID: 5656785

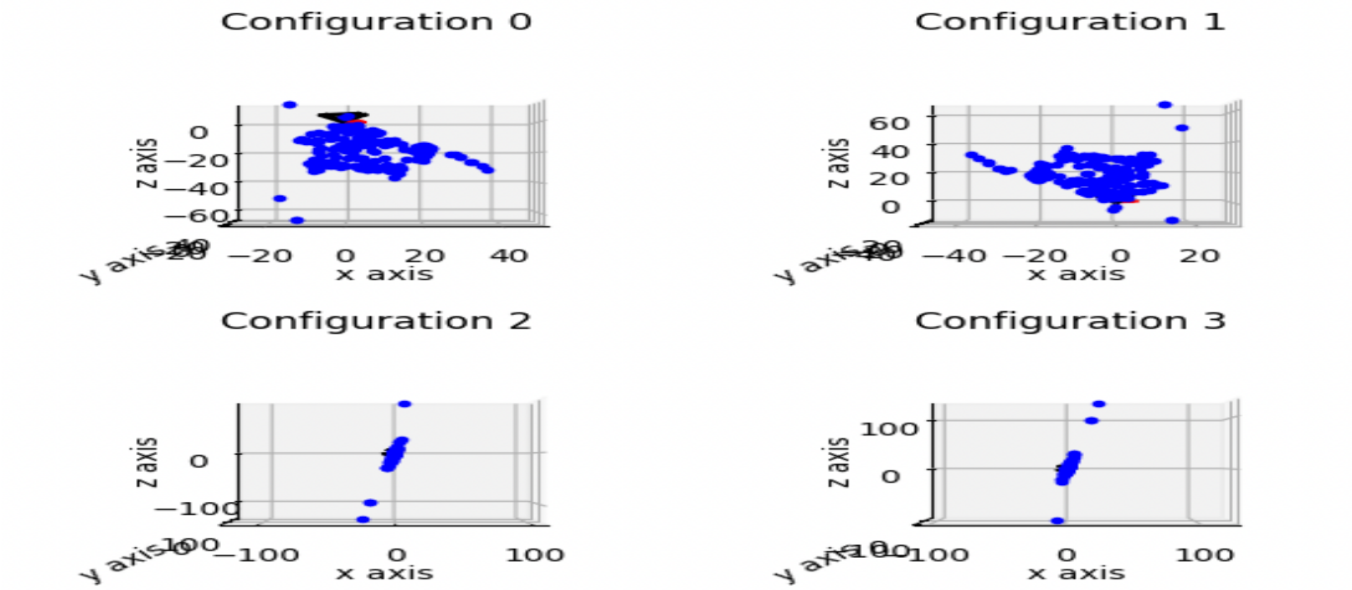
1. Fundamental Matrix Computation - Computed the fundamental matrix using the 8-point algorithm within RANSAC. The number of ransac iterations are 1000 and the threshold is 0.05. Below is the visualization of the epipolar lines.




2. Compute Camera Poses - Below is the 3D visualization of the four configurations.



3. Triangulation - 3D points are reconstructed using linear triangulation method given the camera poses and correspondences. Below is the visualization of reconstructed 3D points.



4. Stereo rectification - After finding the best camera pose rectification matrix is calculated

5. Stereo Match - Disparity Map is computed