Journal Report 9
11/11/19-11/14/19
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Daily Log

Monday November 11

I installed Eclipse with the CDT Plugin, as that was a fix recommended by the OpenCV website. I started following the instructions for setting up the g++ linker and listing the included libraries.

Tuesday November 12

I finished setting up the Eclipse IDE, and ran a test program successfully. I then finished the chessboard detection with the OpenCV, and the program can show the chessboard corners being successfully detected.

Thursday November 14

I wasn't at school.

Timeline

Date	Goal	Met
Week of 11/7	Continued from previous week	I made good progress on the calibration step, as I found a sample on github that I can adapt.
Week of 11/14	Figure out necessary information to store for camera calibration, work on generating calibration from chessboard training images	Yes, I found what exactly I need to save, and made good progress on fixing opencv
Week of 11/21	Fix OpenCV library linking and get chessboard detection working	Yes, the OpenCV libraries are properly linked and chessboard detection works
Week of 11/28	Calculate transformation matrices from chessboard corner detection for rectification	
Week of 12/5	Use blockmatcher and calibration to calculate disparities between pictures	

Reflection

I made very good progress this week and managed to finish all of my goals. I am on pace to finish my winter goal. Working on actually programming the stereovision algorithm has helped me better understand it. I was able to fix all the issues with getting the OpenCV code to compile correctly. Eclipse makes it much more straightforward to set up library inclusion and linking.

Winter Goal

My goal is to have working point cloud generation, and to be able to store these distances at different pixel locations.