

Progress Update (3/9/16)

Juan Vazquez

Array implementation is was successful and is now functional on the Odroid, however currently the program is encountering a segmentation fault. I have now begun working with timers to speed up the data capturing process and am currently debugging the code to eliminate the segmentation fault.

David Bumpus

I have explored methods for registration of the range image and webcam image. Blob detection seems to be the best method for meaningful keypoint detection in the range image. Additionally, I am exploring using surface normal approximation to extract keypoints from the 3D data and 2D image. I will continue to work at the same pace.

Daniel Kubik

This week I have further explored Barnes' Interpolation method and have been able to create a color range image representative of distances from our lidar data. The next steps will be to register this range image with a camera image using either Harris Corner detection, or blob detection. I will continue working at the same pace.