

Progress Update (1/27/16)

Juan Vazquez

At this time, I'm attempting to resolve a memory partition error that currently only allocates 3GB of memory space for the Ubuntu Server OS. I plan to alter the setup configuration to extend the partition to the size of the microSD card (16GB), and eventually the size of the eMMC for the final design.

David Bumpus

I completed testing of the feature detection and matching algorithms using .ppm file. Additionally, I began installing and researching Point Cloud Library (PCL) for feature detection from VLP-16 data. I am currently compiling PCL from source. I will continue to work at the same pace.

Daniel Kubik

Over break I continued learning registration techniques. I also worked with MATLAB to visualize using DeLaunay triangulation in the case that we will use this for depth map creation.

Now back from break, our team has come to the conclusion that Point Cloud Library (PCL) appears to have the most functionality for our lidar purposes compared to other registration methods. I have been working to install PCL to my machine and access PCL through Visual Studio. I plan to put in additional hours to ensure PCL is operational.