| Date | | Senior Project Activity Log  - Junbum Kim | | --- |  Content |
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| Sept 25th | Come up with brief timeline for projects. Split work between teammates. |
| Oct 2nd | Introduction to WPF development. Since this is the first time I am working with C# and WPF, I went through examples to create a sample Windows Platform Application. Designed a prototype GUI application with importing image capabilities. This would later on be used to capture images in 3D, convert images to SLM appropriate format and send out the data. |
| Oct 9th | Preparation for team presentation – get useful feedback from fellow teammates |
| Oct 16th | Kinect Setup – ask Dino for Kinect, install Kinect SDK and driver. Install appropriate drivers for Kinect and make sure it works. Preparation step for proper WPF modelling. |
| Oct 23rd | Kinect Tutorial – Stepping through examples of Color Sensors, Infrared Sensors, Depth Sensors, and finally creating 3D image out of the combined sample. Able to rotate through the image to see the 3D ness of a captured sample image. |
| Oct 30th | Group senior project presentation – made presentation slide backbones and prepared for presentation |
| Nov 6th | Update with teammates on current progress. Share/teach teammates how to set up the Kinect, and share the value produced by the machine. |
| Nov 13th | Senior Project Poster Session – created and printed poster. Prepared for poster presentation and did the presentation |
| Nov 20th | No class due to Thanksgiving schedule change. Created log for feedback heard from poster sessions and created outline for final report. |
| Nov 27th | C# program to fetch directory for python files to automate the setup of environment within Visual Studio so that the program can compile manually without human intervention. Looking into python windows modules to print screen to an external display. |
| Dec 4th | Worked on expanding the final report. Wrote Introduction and built on to the next few sections (Section 1-4) regarding the software pipeline of the project. |
| Dec 11th | Worked on/finished creating a pipeline for slm projection. Integrated holography transmission program Dongkyu created with slm projection program that David made to project noisy file into slm. |
| Dec 18th | Created slides for final presentation. Presented on Rose auditorium. Created and worked on Section 1-4, 9 (Introduction up to optics part and the conclusion) of the lab report |
| Jan 15th | First week of second semester |
| Jan 22nd | Explored ways to set up physical portion of the experiment. The most important task now remains setting the optical instruments with high precision. Ordered required parts such as polarizers and waited for it. |
| Jan 29th | Came up with list of requirements/ components that are required to set up the instruments in a straight line. Started setting up sequence of required elements. |
| Feb 5th | School closure due to flooding in 41 Cooper Square. |
| Feb 12th | Purchased screws and bolts to set up experiment. Established setup for laser, pinhole, polarizer, collimated lens, beam splitter, and SLM. Preparation for poster session. |
| Feb 19th | No class due to schedule change. Poster Session. |
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