Updated Gantt Chart of Project Schedule (2/17/16)

ID	Activity	Start	Finish	Hours	Completion Percentage
1	Read Manual for Interpretation of data packet from scanner	9/15/2015	9/17/2015	3.33	100%
2	Research Image Registration Algorithms	9/22/2015	9/24/2015	4.33	100%
3	Purchase Camera	9/22/2015	10/1/2015	N/A	100%
4	Purchase Embedded Device	9/22/2015	10/8/2015	N/A	100%
5	Receive VLP-16	9/22/2015	10/15/2015	N/A	100%
6	Test Embedded Device	10/20/2015	10/20/2015	2.17	100%
7	Test Power supply to camera	10/22/2015	10/27/2015	5.83	100%
8	Implement Image Registration in MATLAB	10/22/2015	10/29/2015	7.17	100%
9	Implement Data Packet Read Function on Embedded Device	10/22/2015	11/10/2015	16	100%
10	Test image Capture Capability of Camera	10/29/2015	11/5/2015	7.17	100%
11	Implement Image Registration on Embedded Device	11/3/2015	11/23/2015	20.83	80%
12	Camera Installation	11/10/2015	11/17/2015	7.67	100%
13	Test Data Packet Read Function on Embedded Device	11/12/2015	11/19/2015	6.33	100%
14	Interface via operating system	11/19/2015	12/1/2015	8	73%
15	Test power supply to scanner	11/23/2015	12/1/2015	3.17	0%
16	Implement Image Registration for Single Frame Input	12/1/2015	1/21/2016	11	40%
17	Test Timing And Transmission of Data	12/3/2015	1/21/2016	6.17	0%
18	Test VLP-16 Scanner	12/3/2015	12/8/2015	3.17	100%
19	Process Data Packet From Scanner	1/21/2016	2/2/2016	11.33	100%
20	Image Registration For Live Video	1/26/2016	2/4/2016	11	0%
21	Camera Data Packet Transmission	2/4/2016	2/16/2016	11.5	100%
22	Orient/Install Scanner with appropriate scan angle (15 degrees)	2/9/2016	2/16/2016	6.17	0%
23	Progress Presentation	2/18/2016	2/18/2016	Deliverable	N/A
24	Student Expo Abstract	3/10/2016	3/10/2016	Deliverable	N/A
25	Test System Stability	3/22/2016	3/29/2016	Deliverable	N/A
26	Project Demonstration	3/24/2016	3/24/2016	Deliverable	N/A
27	Final Presentation (Last Lab Day)	4/7/2016	4/7/2016	Deliverable	N/A
28	Student Expo Poster Printing Deadline	4/7/2016	4/7/2016	Deliverable	N/A
29	Student Expo Poster Setup	4/12/2016	4/12/2016	Deliverable	N/A
30	Student Expo	4/14/2016	4/14/2016	Deliverable	N/A
31	Final Report (Draft)	4/14/2016	4/14/2016	Deliverable	N/A
32	Final Report	4/28/2016	4/28/2016	Deliverable	N/A
33	Final Web Page	4/28/2016	4/28/2016	Deliverable	N/A
34	Advisory Board Poster Printing Deadline	4/28/2016	4/28/2016	Deliverable	N/A
35	Advisory Board Poster Presentation	4/28/2016	4/28/2016	Deliverable	N/A

Progress Update (2/17/16)

Juan Vazquez

I'm currently altering the laser scanner detection and classification program to continuously capture and store incoming Ethernet data from the laser scanner. The code is only able to currently capture two data packets and the issue is believed to be in the packet classification segment of the program.

David Bumpus

I have successfully implemented keypoint detection and have been able to view the information contained in descriptors for PCL and OpenCV. I will now begin work to register these descriptors. The keypoints have a few similarities including coordinate location, angle, and scale. However, the meaning of this data may differ because of the change in dimension. I will continue to work at the same pace.

Daniel Kubik

We are now able to graphically view keypoints generated by both OpenCV and PCL for the image and lidar data respectively. I am working to also generate keypoints for the image data using PCL (a 2D point cloud). I will speed up my pace and put in more time after lab.