Updated Gantt Chart of Project Schedule (11/4/15)

					Sep-15	Oct-15		Nov-15	Dec-15	Jan-16	Feb-16	6	м	ar-16		Apr-16
ID Activity	Start	Finish	Hours	Completion Percentage	15 17 22 24 29	1 6 8 15 20 2	2 27 29 3	5 10 12 17 19 2	24 1 3 8	21 26 28 2	4 9 11 16	18 23 25	1 3 8 1	0 22 24 29 3	1 5 7 12	14 19 21 26 2
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	60%												
9 Implement Data Packet Read Function on Embedded Device	10/22/2015	11/10/2015	16	45%												
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	0%												
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	0%												
14 Interface via operating system	11/19/2015	12/1/2015	8	30%												
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	0%												
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	0%												
19 Process Data Packet From Scanner	1/21/2016	2/2/2016	11.33	0%												
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	0%							000000000000000000000000000000000000000					
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 (11/4/15)

Juan Vazquez

I was able to successfully install OpenCV onto the Odroid XU4. I have also developed a program that interfaces with the Logitech C500 using OpenCV, and is able to successfully capture and store images. I've created this c file within the Odroid directory but am currently having issues with compiling. Future development will involve creating the executable image capture file and beginning Velodyne Puck interfacing.

David Bumpus

I have successfully converted the data to a scaled size. The data has been reduced to allow for more rapid processing. I am slightly behind schedule. To get back on schedule, I will calculate the slopes for planes throughout the data. From this I will apply feature detection to the Lidar data and attempt to match the lidar features with the image features.

Daniel Kubik

After familiarizing myself more with C++ and object oriented programming, I am beginning to draft classes that will allow for a useful interface to organize all of the different data types used in this project. I am currently on schedule and will keep working at the same pace. My next steps are to continue developing these classes and to transfer these layouts from paper to code.