# **Updated Gantt Chart of Project Schedule (11/18/15)**

					Sep-15	Oct-1	5	No	v-15	Dec-15	Jan-16	Fe	b-16	Mar	-16		Apr-16
ID Activity	Start	Finish	Hours	Completion Percentage	15 17 22 24 29	1 6 8 15 20	22 27 29	3 5 10	12 17 19 24	1 3 8	21 26 28	2 4 9 11	16 18 23 25	1 3 8 10	22 24 29 31	5 7 12	14 19 21 26 28
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%	W//////												
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		10/15/2015	N/A	100%													
6 Test Embedded Device	10/20/2015	10/20/2015	2.17	100%			8										
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	70%													
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	10%													
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	60%													
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%													
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 (11/18/15)**

#### Juan Vazquez

I have researched more into methods of receiving raw Ethernet data from the laser scanner. Currently, I have altered a "packet sniffer" program that detects TCP, UDP, ICMP, IGMP, and any other traffic being sent through Ethernet. This program, at the moment, also stores this incoming data into a text file. Future development will involve testing the accuracy of these stored values and reformatting the data packets.

#### **David Bumpus**

I have installed a basic version of OpenCV 3.0 on my operating system and have been able to compile code to display an image. Using CMake and Visual Studio, I have also began installation of the OpenCV libraries containing the SIFT algorithm. Embedded device implementation of image registration is slightly behind schedule. To get back on schedule, I need to have functional feature detection of an image on the embedded device by 11/25.

## Daniel Kubik

This week I continued writing my classes in C++. I have successfully created all of the data storage classes, and am now finishing up the interface related classes. I am running on schedule, and will continue working at the same pace.