
EE/CprE/SE 492 BIWEEKLY REPORT 2

January 27 – February 9

Group number: sdmay18-20

Project title: A Disappearing A-pillar

Client &/Advisor: Professor Kim Jaeyoun

Team Members/Role:

- Yixuan Wang —Team Communicator
- Han Liao — User Interface/Image Acquisition Programmer
- Wenrui Wu —Image Acquisition Programmer
- Shengliang Liu—Program Tester
- Guantong Zhou —User Interface Programmer
- Yaowei Lee — Team Website Designer/Image Processing Programmer

○ **Weekly Summary**

- We setup our tablet on the testing car, due to snowing weather, the testing distance is too short and not good enough. We will continue to test it next week.

○ **Past week accomplishments**

- Yixuan Wang: We tested Wenrui's car, but due to the heavy snow, the results is not very good.
- Han Liao: I did the test to measure the visibility on our App. Since waterlogging and snow on the windshield, we can't collect a accurate result.
- Wenrui Wu: Done the test with the testing car, and we made a plan for the coming week.
- Shengliang liu: Have not get the image got by the camera, so the calculation can not be done.
- Guantong Zhou: Found different devices options to make our program works better.
- Yaowei Lee: Looked up the latest technologies in search of an Android device that would be most suitable for our application to work on.

○ **Pending issues**

- Han Liao: We have already made a testing plan to measure the camera visibility on our App. Hope we will do the test on a good weather day in next week.
- Yixuan Wang: Since we did not get accurate results due to weather problem, we need to continue our test next week with a good weather.
- Wenrui Wu: Find a good weather day to do the testing and calculator the max view range of our tablet.
- Shengliang liu: working on finding the range of the image which can get by camera.
- Guantong Zhou: Need to wait until a good weather to test our program.
- Yaowei Lee : Continue doing a search for the most suitable device.

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Yixuan Wang	We did the presentation. In order to illustrate the problem on presentation, we tried to test our car to show our results about A pillar disappearing. However, the weather is not good when we did our test. Our results is not accurate, we will continue to test our results next week.	4	4
Han Liao	We finished our powerpoint slides and did the presentation in Tuesday class. Our original plan was doing the test on our tablet visibility this week. Since the bad weather, it's hard to collect the accurate result. I made a better testing plan which could be tested on a good weather day next week. I was keep learning how to enrich our feature function in our App.	4	4

Wenrui Wu	My team and I tried to do the test about the tablet. The aim of this test is to find the max range of our tablet, including the distance to pedestrian and other objects . Due to the bad weather on the test car, the result of our test is not good, it is really hard to see outside from the inside of the testing car through our tablet-. For coming week, we plan to do the test during a sunny day and do more sets of test to improve the precise of our test.	4	4
Shengliang liu	The advisor give us a job which is get the range of the image from the camera. So we need to take a photo, and then measure the distance and calculate the ratio of the length in the picture and the distance in the real world. But due to the heavy snow, the conclusion is not accurate, so the work has not been finished. Our team plan to continue on this work next week.	4	4
Guantong Zhou	We did a presentation last week and we introduced our project to the other group and our professor. In order to control the cost of our program, our advisor decide we are not going to build our program our the other devices. We might will test our program on better devices in the future.	4	4
Yaowei Lee	We presented our project to our senior design professor the past week and the task we have for this week is to run a few tests on the	4	4

	application to determine how to improve the app.		
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○ **Plan for coming week**

- Team Member 1: Yixuan Wang: For the next week, I will continue to do the car testing with my members.
- Team Member 2: Han Liao: I will do the camera visibility test on a good weather day next week. And I will start to build our feature function “Car Category”.
- Team Member 3: Wenrui Wu: Do the testing for the tablet during a sunny day and find the max view range of our tablet.
- Team Member 4: Guantong Zhou: Run the testing with the other devices when the weather is getting better.
- Team Member 5: Yaowei Lee: Do some tests with the app to determine what is the optimal distance for images to display at the highest quality.
- Team Member 6: Shengliang Liu: Working on calculate the range of the image.

○ **Summary of weekly advisor meeting**

- Since the bad weather outside, we can't test our camera visibility on real car. We made a better testing plan which could be used next week.
- During the meeting, our professor give us advice that we need to do the test on a sunny day and do the test from different angle to increase the precise of our test result.