This past week we completed setting up the test space. We now have the floor space marked off every two feet with tape and a moveable eight foot high stand marked every two feet with which we can test each of the points in our 8’ by 10’ by 10’ test space every two feet. In addition, Josh and I met to correct issues we were having with the RLS filter. As it turns out, the RLS filter was always working, but our method of graphing the filtered signal was incorrect and led us to believe the filter was dysfunctional. After realizing the actual problem we changed the filter and integrated the RLS filter into our program.

Regarding the RLS filter, It does increase the ability to detect sound in regards to room noise by about four times, but at the expense of a substantial time delay. The real time ability of the program is most likely more important than the increase in accuracy in sound detection that the filter provides, but will have to be determined at the next group meeting.

In addition, I coded the database building algorithm without using Microsoft Excel.

For future updates we need to determine the necessity of the RLS filter code, build the database, check the camera code, and debug the final program.