

Group number: 37

Project title: High Clarity Speaker System

Client &/Advisor: Dr. Louis Banitt, M.D. / Professor Tuttle.

Team Members/Role: Quinn Rayner, Nicholas Bramanti, Arifi Salim, Andrew McNeil

○ **Weekly Summary (Short summary about what you did this week)**

This week we again met with professor Tuttle to discuss our current plan for our project. We had initially been interested in using Bluetooth because our client was worried with FCC regulations on open air radio transmissions. Professor Tuttle told us of a radio frequency that is not regulated, and also some places we should start looking into technology that we can use. We are now researching software radio, and design ideas for speakers that can receive radio transmissions.

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Quinn	Researching antenna designs online.	6	24
Nick	Researching software radio	6	24
Arifi	Researching speaker designs	6	24
Andrew	Researching microphone and speaker.	6	24

○ **Comments and extended discussion**

Our meeting with professor Tuttle this week set the tone for the rest of our project this semester. We now have some specific ideas for each of us to do in-depth research on, and plan on ordering and playing with some antennas and software for the base design of our system. We have found some interesting ideas, and think we have a good design concept.

○ **Plan for coming week (please describe as what, who, when)**

- Quinn: researching hardware for sending signals from websites provided by Tuttle.
- Nick: researching software radio, found an interesting one called GNU radio.
- Arifi: researching potential designs of speakers and how to build components
- Andrew: researching microphone and speaker design concepts