

*Group number: 22*

*Project title: Smartphone based nano-device for human breath sensing*

*Client &/Advisor: Prof. Long Que*

*Team Members/Role: Jared Smiley-Team Leader, Zhaobo Huang-  
Webmaster, Mengzhou Sha-Communication Leader, Concept Holder-Xin  
Chen*

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- **Weekly Summary (Short summary about what you did this week)**
- In this week, we had a half hour meeting with our professor. First, we developed and showed our presentation about our understanding of how to find frequencies and magnitude from a spectrum image. And then, professor Que assigned us to use matlab on a spectrum image to make sure we could successfully plot the frequency vs magnitude profile.
- **Past week accomplishments (please describe as what was done, by whom, when)**
  - Team Member 1: Researched frequency spectra, Developed presentation, Attended meeting with professor and gave presentation on project, helped write weekly report
  - Team Member 2: Researched frequency spectra, Developed presentation, Attended meeting with professor and gave presentation on project, helped write weekly report
  - Team Member 3: Researched frequency spectra, Developed presentation, Attended meeting with professor and gave presentation on project, helped write weekly report
  - Team member 4: Researched frequency spectra, Developed presentation, Attended meeting with professor and gave presentation on project, helped write weekly report
- **Pending issues (if applicable)**
- **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Member 1	Attended meeting with professor , wrote weekly report, developed presentation	2	7
Member 2	Ditto	2	7
Member 3	Ditto	2	7
Member 4	Ditto	2	7.5

○ **Comments and extended discussion**

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

- Team Member 1: Develop matlab code to plot frequency's based on color spectrum in image, discuss website plan
- Team Member 2: Develop matlab code to plot frequency's based on color spectrum in image, discuss website plan
- Team Member 3: Develop matlab code to plot frequency's based on color spectrum in image, discuss website plan
- Team member 4: Develop matlab code to plot frequency's based on color spectrum in image, discuss website plan

○ **Summary of weekly advisor meeting (if applicable/optional)**

This week, we met in Prof. Que's office at 10:15 on Friday. We gave a presentation detailing what we learned from the project background paper he provided. He assigned us to research and write code to turn

data from the camera to a spectra and to give a presentation at our next meeting.