

Group number: 20

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

- **Weekly Summary**

This week we met with our advisor to discuss our project so far. We had a change of plans and began working towards our new goals. We began research on ways to identify gas concentration in air.

Past week accomplishments

- Xin: research
- Mengzhou: research
- Zhaobo: Research
- Jared: Research

- **Pending issues**

- **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>
Xin	Research	3
Mengzhou	Research	4
Zhaobo	Research	4
Jared	Research	3

- **Plan for coming week**

- Meet group to detail research and develop new plan for designing and testing

- **summary of meeting with our professor**

We met our professor and showed our progress on the app. He said that it would be difficult to develop a spectrometer and software from scratch that would be able to differentiate correct nucleic acids just by pointing at an infected patient and decided that this effort would be a multi-year project. He said that our

part would be basic to see if we could identify gas concentrations using a commercial spectrometer and performing experiments to ensure we could do it correctly consistently.