

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 created a 3d design in solidworks and got it 3d printed and brought it to lab for some input from our advisors grad students. We determined that it would be hard to 3d print something that could be see through for the spectrometer, could be opened, and would be airtight. We decided to try the buying a waterproof clear case and pumping gas in. When trying to work with it in the lab, we determined that it would be easier to let gas evaporate in the container rather than trying to pump them in and the easiest option would be to use cheap petri dishes.

Past week accomplishments

- Xin: work in lab/plan experiments
- Mengzhou: work in lab/plan experiments
- Zhaobo: work in lab/plan experiments
- Jared: work in lab/plan experiments

- **Pending issues**

- **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>
Xin	work in lab/plan experiments	2
Mengzhou	work in lab/plan experiments	2
Zhaobo	work in lab/plan experiments	4
Jared	work in lab/plan experiments	4

- **Plan for coming week**

- Meet with professor and plan experiments with petri dish

- **summary of meeting with our professor**

