
EE 492 WEEKLY REPORT 5

Date:2/6/17-2/10/17

Group number: 1721

Project title: Glucose detection using a disposable nanosensor

Client &/Advisor: Prof. Que

Team Members/Role: Shir Linn Tan (Team Leader)

Wai Han Kong (Team Communication Leader)

Dalton Strauser (Team Key concept holder)

XiongSheng Yi (Team Webmaster)

(All the above information should be there in each weekly report. The format/color scheme etc need not be the same.)

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

For this week, we have done our first testing in the lab. The concentration of glucose solution we used was 0.53mg/ml. We used three detectors to test three groups of data. So, each detector had three sets of data. All the data detected were stored in the excel and we plot the glucose concentration functions in the excel.

Past week accomplishments (please describe as what was done, by whom, when)

Meeting with PhD student and learning the fabrication process of AAO (Anodic Aluminium Oxide).

○ **Pending issues (if applicable)**

- Shi Linn Tan: Use the glucose detectors to test the glucose solution by concentration of 0.53mg/ml, analyze data and plot the corresponding figure.
- Wai Han Kong: Use the glucose detectors to test the glucose solution by concentration of 0.53mg/ml, analyze data and plot the corresponding figure.

- Dalton Strauser: Use the glucose detectors to test the glucose solution by concentration of 0.53mg/ml, analyze data and plot the corresponding figure.
- XiongSheng Yi: Use the glucose detectors to test the glucose solution by concentration of 0.53mg/ml, analyze data and plot the corresponding figure.

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Tan Shir Linn	Go to lab, do the testing of 0.53mg/ml glucose solution, analyze data and plot the corresponding figure.	2	9
Wai Han Kong	Go to lab, do the testing of 0.53mg/ml glucose solution, analyze data and plot the corresponding figure.	2	9
Dalton Strauser	Go to lab, do the testing of 0.53mg/ml glucose solution, analyze data and plot the corresponding figure.	2	9
XiongSheng Yi	Go to lab, do the testing of 0.53mg/ml glucose solution, analyze data and plot the corresponding figure.	2	9

○ **Comments and extended discussion**

Since we were the first time to do the testing work, we were unfamiliar with most of equipment. Fortunately, the PhD student helped us a lot. He was really patient to teach and show us how to use those measurement tools. Thanks for him, our first glucose concentration testing was going well. It was really helpful for testing other sets of data of glucose concentration in the following weeks.

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

- Shir Linn Tan: Glucose solutions testing for concentration of 5.3mg/ml.
- Wai Han Kong: Glucose solutions testing for concentration of 5.3mg/ml.
- Dalton Strauser: Glucose solutions testing for concentration of 5.3mg/ml.
- XiongSheng Yi: Glucose solutions testing for concentration of 5.3mg/ml.

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

No advisor meeting but doing testing in the lab with his PhD student.