

Qs`EE 491 WEEKLY REPORT 2

Date: 31/01/2015

Group number: DEC1616

Project title: Surveillance of dairy animals using a smartphone-based system

Advisor: Meng Lu

Team Members/Role:

Xin Tong: Team Leader

Di Zhao: Team communication leader

Le Wei: Team Webmaster

Tianqi Luo: Key concept Holder

Weekly Summary about the first week

This week we have a better understanding for the whole project. After reading three materials which is given by the advisor, we understand the “fluorescence”, “polarization”, “spectroscopy”, and the purpose of the experiment. We generally have the experimental framework during the meeting. Everyone started their work, whether software or theory. Due to each of us use the different software, we began to learn them in the different labs. We mastered the basic operation of these software successfully. Secondly, during the meeting, we discovered that there is a lot knowledge we never learned before. Thus, we decided to look for some article or books to study. So we can better understand the whole processing of the experiment.

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

Xin Tong Learn the basic principle of operation of X-code and do a programming plan.

Di Zhao start to learn the software “solidworks” and try to design a few simple stuff.

Tianqi Luo look for some device which can determine the “fluorescence polarization assay” and read some article form internet.

Le Wei connect with the company “Synopsys” waiting for the the student license, and began to read the book “Optical System Design” (by Robert E.Fischer)

Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
A	Tianqi Luo	7	15
B	Di Zhao	7	15
C	Le Wei	7	15
D	Xin Tong	7	14

Comments and extended discussion

We all want to our best, so we had a heated discussion during the meeting. We express our own opinions to each other. Everybody has their own opinion for whole design. But delightfully, we have a unified opinion after intense discussion. And we have a perfect framework for the entire project.

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

Xin Tong improve the programming plan of the X-code.

Di Zhao Start to demo the complex stuff and real-lift stuff.

Tianqi Luo summary the articles about “fluorescence polarization assay”, and help other members understand these knowledge.

Le Wei obtain the student license. Learning the software “Code V” and “LightTolls 8.2”.

Summary of weekly advisor meeting (if applicable/optional)

The advisor hope we can learn these software or books seriously. Because these capabilities can help us in our future life or working.