

EE 492 Weekly Report MAY1633 Week 12(4/7/16-4/13/16)

Advisors: Dr. Daji Qiao, Dr. Long Que

Client:

**Members (roles): Schilling, Anthony (Team Leader)
Bennett, Tyler (Concept Keeper)
Li, Liuchang (Web Master)
Lin, Haisong
Tian, Yang (Communication Leader)
Wang, Wentai**

Time: April 13th 2016

Project Title: Portable Nutrient Data Collection System Based on MEMS Sensors and Smartphone technologies

Summary and Accomplishments

This week make an evaluation of what we need to do in the next two weeks, because final document and poster need to be done. Some testing and implementation is almost finished within this week.

| WHO | WHAT | HOURS |
|----------|--|-------|
| Anthony | <ul style="list-style-type: none">▪ Sam L21 Bluetooth data transmission▪ Using the GPIO pin to provide voltage for switch | 11 |
| LiuChang | <ul style="list-style-type: none">▪ PCB design complete▪ Searching the components that needed for the soldering | 8 |
| Haisong | <ul style="list-style-type: none">▪ Testing of the voltage booster and micro discharger device▪ Improvement of the circuits | 6 |
| Tyler | <ul style="list-style-type: none">▪ Program coding for the cell phone app▪ Using the current data to do the plotting spectrum | 11 |
| Yang | <ul style="list-style-type: none">▪ Contact the technician from the company which made the spectrometer▪ Examine the firmware version of the spectrometer and testing | 9 |
| Wentai | <ul style="list-style-type: none">▪ Data transmission method testing and consider other alternatives | 10.5 |

Meeting notes:

1. Search some available templates to design the poster.
2. PCB board components need to be ordered to catch up the time.
3. Some data, screen shot or the implementation test are taken to save for poster and final document.

Pending issues

1. Anthony is working on Sam L21 Bluetooth code testing and switch control output.
2. Tyler is working on the cell phone app programming and data plotting.
3. Liuchang is searching for available components and order the components need for the PCB board.
4. Yang is working on examining the firmware version and discuss the possible issue. And working on the poster design.
5. Wentai is working on switch design and design of the poster.