

## EE 491 Weekly Report    MAY1633    Week 11(11/25/15-12/1/15)

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**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)**

**Time: Dec 1st 2015**

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

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### Summary and Accomplishments

The main goal of this week is to continue the work on the subsystem and working on the group presentation slides.

WHO	WHAT	HOURS
Anthony	<ul style="list-style-type: none"><li>Working on the interface of LCD and GPS (3)</li></ul>	3
LiuChang	<ul style="list-style-type: none"><li>Working on the PCB design (3)</li></ul>	3
Haisong	<ul style="list-style-type: none"><li>Working on the transformer components of the voltage booster (3)</li></ul>	3
Tyler	<ul style="list-style-type: none"><li>Working on the app design and connection between the app and computer (3)</li></ul>	3
Yang	<ul style="list-style-type: none"><li>Working on the configuration of Atmel studio and setting up the evaluation board (2.5)</li></ul>	2.5

## Meeting notes:

1. Separate the group presentation slides to parts so group members can start to work on different parts and combine them on Friday, out next meeting.
2. This is the discussion result

Anthony  
Liuchang  
Haisong  
Yang  
Tyler

Title (title, team, advisor, and client info)

PROJECT PLAN (~9 slides)

- o Problem Statement
- o Conceptual Sketch
- o Functional Requirements
- o Non-functional Requirements
- o Technical/Other Constraints/Considerations
- o Market survey – articulate what makes your project unique
- o Potential Risks & Mitigation
- o Resource/Cost Estimate
- o Project Milestones & Schedule

SYSTEM DESIGN (~9 slides)

- o Functional Decomposition
- o Detailed Design (functional modules design, interface definition, user interfaces, etc.)
- o HW/SW/Technology Platform used
- o Test Plan – simulation, what tests, what metrics, hypothesis, etc.
- o Prototype Implementations or Basic building block implementations (and applicable results)

CONCLUSION (~3 slides)

- o Current Project Status with respect to milestones (1 slide)
- o Task Responsibility/Contributions of each project member
- o Plan for Next Semester (1 slide)

3. Order of the presentation slides need to be further discussed on the Friday meeting

## Pending issues

1. All group members will work on the presentation slides
2. Working on details of the final project plans and design document.