

EE 491 Weekly Report **MAY1633** **Week 7(10/13/15-10/20/15)**

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: Oct 19th 2015

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

Summary and Accomplishments

The main goal of this week is to compare more options of Bluetooth integrated microcontrollers, varies from different companies.

WHO	WHAT	HOURS
Anthony	<ul style="list-style-type: none">Research the background of the LCD and GPS interface and component (3.5)	3.5
LiuChang	<ul style="list-style-type: none">Research the background of Bluetooth SoCs options from Marvel, Freescale and Silicon Labs. (4)Compare Soc features and make the comparison table (1)	5
Haisong	<ul style="list-style-type: none">Purchase electronic component voltage boost circuit (3.5)	3.5
Tyler	<ul style="list-style-type: none">Screen sketch of the app (2)App diagram (1.5)	3.5
Yang	<ul style="list-style-type: none">Research the Bluetooth SoC options from NXP, Atmel, TeLink (4)Compare the SoC features and make the compatison table (1)	5

Meeting notes:

1. Introduction about all 6 options of the processor and comparing them on power consumption, size, operation frequency, etc. The preferable options are from Atmel, NXP and Freescale. Those companies will have a better power consumption and size.
2. Dr. Qiao suggested that the group can compare the options with the other group so we can purchase and share one debugger tool.

Pending issues

1. Ask suggestions from other professors about the options of the microcontrollers
2. Prepare to communication with the other group so we may save the budget.

Plans for next week

1. Build the circuits until the purchased components were arrived.
2. Make the decision about which microcontroller we need to purchase