EE 492 Weekly Report MAY1633 Week 8(3/3/16-3/9/16)

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: Ma	r 9 th 2010	5		
Project T	itle: P Senso	ortable Nutrient Data Collec ors and Smartphone technolog	tion System Based on MEMS ;ies	

Summary and Accomplishments

This week we put more attention on testing Sam b11, PCB design, and Rs232 communication.

WHO	WHAT	HOURS
Anthony	Bluetooth module chip program testingSam b11 testing	8
LiuChang	 PCB design Evaluation of replacing original chip to Sam b11 	8.5
Haisong	Testing of for the voltage booster and micro discharger deviceImprovement of the circuits	5
Tyler	Program design for the cell phone appBuilding the database for the data reference	8.5
Yang	 Data transmission method research and testing: RS232 mode 	9
Wentai	Case design improvement and evaluationData transmission method testing	8.5

Meeting notes:

- 1. Considering the Sam b11 is more integrative, more testing about the Sam b11 Bluetooth module are going to be continue.
- 2. RS-232 communication is being made.
- 3. Database has been working on for saving data from spectrometer.
- 4. Voltage booster circuits is working well, the peak voltage can reach ~280V but the charge time is about 5s which is a little longer than espected.

Pending issues

- 1. Anthony is working on Sam B11 Bluetooth code testing
- 2. Tyler is working on the cell phone app programming and database building
- 3. Haisong is working on testing the micro discharger device and some improvments.
- 4. Liuchang is working on the PCB design of the board and reevaluate possible arrangements for external MCU.
- 5. Yang is working on data transmission from spectrometer to SAM L21 MCU.
- 6. Wentai is working on build the case with cheaper and easy obtained materials and some data transmission testing.