# **EE491 Weekly Report 11**

Date: <u>11/22/16-11/27/16</u>

Group number: May 1717

Project title: 19 - Wireless Solar Temperature/Humidity Sensor

Client: Dan Stieler

*Team Members/Role:* 

Yi Qiu - General Member

Xiang Li - Webmaster

Kebei Wang - Team Leader

Trevor Brown - Key Concept Holder

*Kukjin Chung - Communication Leader* 

#### **Weekly Summary**

• We had the second client meeting to discuss what we have done and to make next goal.

• We also finished the revised design document.

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

- Kebei Wang -test the property of new chips we will get and check to see if we can find new BLE and compare it with which we are using.
- Trevor Brown Compared BLE development boards and researched the SDK
- Yi Qiu meeting with group and go to Nordic website to search the nRF52 datasheet
- KukJin Chung I joined the advisor and client meeting and participated Monday, Friday,
  and Sunday group meeting. I worked on the design document.
- Xiang Li did some research on how to use BLE module board, and participated the meetings as well as finished the revised desgin document.

#### Pending Issues

- Power harvesting test is postponed to next week.
- Figure out how to use BLE module.

### **Individual contributions**

<u>NAME</u>	Individual Contributions	<u>Hours</u>	<u>HOURS</u>
		<u>this</u>	<u>cumulative</u>
		<u>week</u>	
Yi Qiu	meeting with group and go to Nordic website to	4	29.5
	search the nRF52 datasheet		
Xiang Li	did some research on how to use BLE module	3	30
	board, and participated the meetings as well as		
	finished the revised desgin document.		
Kebei	Read data sheet for harvest chip and attend the	3	32.5
Wang	group meeting.		
Trevor	Tested multiple sensors and measured the power	8	31
Brown	consumption. Tested the energy harvesting circuit		
	with a battery.		
Kukjin	Participated meeting and worked on project plan.	6	31.5
Chung	Read energy harvesting data sheet. Found out the		
	problem we couldn't get the BLE address and fixed.		

## Comments and extended discussion

• We will get another sensor from our client and test it.

• Connect the our circuit board to the battery.

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

- Kebei W. continue to test chip and prepare for the presentation.
- Yi Q. continue prepare for presentation, prepare for next advisor meeting
- Kukjin C. will connect the circuit board to the energy harvesting board with battery.
- Trevor B. Continue research on TI chips and compare power consumption.
- Xiang L. build the circuits and do some test as well as join in the meetings.