EE491 Weekly Report 1

Date: 9/6/16-9/12/16

Group number: May 1717

Project title: 19 - Wireless Solar Temperature/Humidity Sensor

Client &/Advisor: Dan Stieler

Team Members/Role:

Yi Qiu

Xiang Li - Webmaster

Kebai Wang - Team Leader

Trevor Brown - Technical Leader

Benjamin Nelson - Communication Leader

Kukjin Chung

Weekly Summary

⎽⎽⎽⎽⎽⎽For this first week we had our initial meeting. During this meeting we introduced each other and exchanged contact information. We chose a team leader and assigned roles to several team members. As a group we decided to give Kebai the job of contacting our client.

However, we are having issues contacting our client. Our messages are not being delivered to him for some reason. We have reached out to Professor Mani to help us rectify this situation.

We also discussed the project in general and broke it up into its major parts.

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

- Kebei Wang - Tried to contact our client
- Trevor Brown - Decided BLE was the best low power solution for our product but we should wait until we have a meeting with our client.
- Benjamin Nelson - Distributed a survey to team members to decide on a group messaging system. Set up group messaging system. Revised weekly report.
- Yi Qiu - Distributed the tasks to members based on what they can do in the lecture and did the weekly report on Sunday .
- KukJin Chung - Decided what he can do in the project in the 491 lecture and did the weekly report on Sunday.

- Xiang Li - Decided what she can do in the project in the 491 lecture and did the weekly report on Sunday.

Pending Issues

- We are still unable to contact our client.

Individual contributions

NAME	Individual Contributions	Hours this week	HOURS cumulative
Yi Qiu	Did some research on sensors datasheet and Lux	1.5	1.5
Xiang Li	Did some research about how solar cells work	1.5	1.5
Kebai Wang	Tried to contact our client	1.5	1.5
Trevor Brown	Researched low power wireless solutions	1.5	1.5
Benjamin Nelson	Worked to establish a group communication system that works for everyone	2.0	2.0
Kukjin Chung	Collected everyone's contact information	1.5	1.5

Comments and extended discussion

Based on the information we have so far for the project, we have tentatively divided the project into categories. The major division is between Hardware and Software. Within the Hardware category, our major concerns are the power supply, sensors, and data transmission. Due to the power requirements for this project, we need to research which sensors and data transmission method will be the most power efficient.

We are waiting until we contact our client to look into the software side of this project.

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

_____Our primary goal for next week is contacting our client and setting up a meeting time with him. Kebai will be focusing on this.

Other group members have been assigned some research to do while we wait to contact our client.

- Yi Q. and kukjin will focus on finding hardware with low power requirements
- Both Trevor B. and Ben N. will work on finding the difference in power requirements between different possible data transmission methods
- Xiang L. will research possible solar cells.