EE491 Weekly Report 6

Date: 10/11/16-10/17/16

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

<u>Weekly Summary</u>

In this week, we have worked on the first project plan and have tested one temperature

sensor and two temperature and humidity sensors. We measured the current flow and

calculated power consumption which is occurred in each sensor. We also made up the project

webpage.

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

- Kebei Wang - did some research of the solar power resource.

- Trevor Brown - Made a block diagram of the hardware, ordered samples from TI of the

  power management IC

- Yi Qiu -Create project website and attend circuit test meeting. Edit some parts of project

  plan

- KukJin Chung - Participated in the advisor meeting and researched on arduino bluetooth

  transmission and MIT app inventor

- Xiang Li —found some teperature sensors that we gonna use for the porject, and

  choose the best one to test. Attended the circuits test meeting and wrote some project

  plans.

Pending Issues

- Testing other kinds of sensors which will be delivered.

-

Individual contributions

NAME	Individual Contributions	Hours this week	HOURS cumulative
Yi Qiu	Create project website and attend circuit test meeting. Edit some parts of project plan	3	9.5
Xiang Li	Found some temperature sensors that we gonna use for the project, and choose the best one to test. Attended the circuits test meeting and wrote some project plans.	2.5	11
Kebei Wang	Do research, contact with client and advisor for further appointment, attend group meeting, made the timeline and a few other content for project plan.	3	10.5
Trevor Brown	Created a block diagram of the hardware, ordered samples from TI of the power management IC	2	5
Kukjin Chung	Set up arduino and MIT app inventor software. Prepared circuit components.	4.4	11

<u>Comments and extended discussion</u>

<u>Plan for coming week (please describe as what, who, when)</u>

- Kebei W. Work on project plan, post my information on the website and build the

  circuit.

- Yi Q. continue work with project plan and website, wait to get some components

- Kukjin C. work on project plan, and get ready to build the circuit.

- Trevor B. Continue research on TI chips and compare power consumption.

- Xiang L. keep searching some electrical components that we should to use, and do some

  tests for finding a good one, and do some searching on bluetooth development board.