EE 491 WEEKLY REPORT 5   *Date: 2-27-2017*

Group number: 17

Project title: Irrigation Monitoring App

Client &/Advisor: Dr. Ajay Nair and Dr. Manimaran Govindarasu

Team Members/Role:

Team Leader: Sierra Lucht

Team Communication Leader: Landon Woerdeman

Webmaster: Sam Jackson

Key-Idea-Holder: Daniel Albers

Key-Idea-Holder: Seth Lightfoot

o **Weekly Summary (Short summary about what you did this week)**

This week, we continued our research on viable sensors. We also placed our current prototype in a campus greenhouse for testing. Additionally, we completed the first version of our project plan, as it was due during this week.

o **Past week accomplishments (please describe as what was done, by whom, when or collectively as a group)**

- Daniel Albers: Research feasibility of reverse engineering current sensor to work with new wireless microcontrollers.
- Sam Jackson: More research into Flutter.
- Seth Lightfoot: Looked into simple UI and bluetooth communication for proof of concept. (Android) Looking for suitable dual platform compiler.
- Sierra Lucht: Finished up editing of project plan for submission and researched viable sensors.
- Landon Woerdeman: Reformatted project plan. Organized into sections that matched the template. Wrote the introductory section of project plan, and explained the mock up diagram.

- o **Pending issues (if applicable)**
  - Daniel Albers: N/A
  - Sam Jackson: N/A
  - Seth Lightfoot: N/A
  - Sierra Lucht: N/A
  - Landon Woerdeman: N/A
- o **Individual contributions**

NAME	Individual Contributions	Hours this week	HOURS cumulative
Daniel Albers	Existing sensor reverse engineering	3	18
Sam Jackson	Demoed flutter preview applications	3	10
Seth Lightfoot	Worked to understand bluetooth communication app side so it wouldn't be a huge surprise when we get to that point.	4	12
Sierra Lucht	Continued work on the project plan and sensor research	3	12
Landon Woerdeman	Project plan work	4	11

- o **Comments and extended discussion**

- o **Plan for coming week (please describe as what, who, when)**
  - Daniel Albers: Obtain existing sensor, try to read value with microcontroller
  - Sam Jackson: Assist with prototype and mobile dev. research.
  - Seth Lightfoot: Support sensor testing, dive further into the mobile side
  - Sierra Lucht: Improve prototype based on sensor research
  - Landon Woerdeman: Start writing better php application for gathering data.

- o **Summary of weekly advisor meeting (if applicable/optional)**

We did not meet this week, as our client was out of town.