***Week 4 Reports – Dec1212***

**[Temperature and humidity control for a chip-scale seed culture laboratory]**

**Accomplishments of the past week**

1. After the meeting with the advisor this week, we had a big switch on the project plan. We are currently working on a different project, but which has the same idea.
2. The advisor/client assigned us new tasks, pairing us in sub-groups of two people.
3. Sean Belieu & Ashok P.Rajan – working out the logic to control 10 different solenoids to control the movement of liquid in the channels and to pick a specific growth chamber out of 128 growth chambers.
4. Sahan Fernando & Narimdinda Robert Bouda – Did all sensor related research. Only focusing on temperature and humidity sensors. Designing and creating a circuit on a PCB board to be connected to the growth chamber/s.
5. Zhaokui & Tianyu – Design the interface between liquid and air solenoid channels that are placed under the growth chambers.
6. Came up with the 1st draft of the project plan.

**Plan for coming week**

1. Research on possible solenoids (2 way solenoids).
2. Design a circuit layout for the Sensiron SHT 1X (temperature and humidity sensor).
3. More exploration about micro-channels and micro-fluid logic.

**Pending issues**

1. Given the sudden change in the nature of the project, several adjustments need to be made to get the project back on track.
2. Re-creation of class presentation after change in nature of project.

**Individual Contributions**

Narimdinda Robert Yann Bouda – ***Leader***

1. Compiled the project plan.
2. Worked on Work plan for the project plan.

Sean Belieu –***Webmaster***

1. Worked on the Functional and non-functional requirements for the project plan.
2. Did research and came up with questions for client on solenoids on specification with Ashok.

Ashok P. Rajan – ***Communication Liason***

1. Set up separate meeting with advisor to talk about the project change with Sean Belieu.
2. Worked on System block diagram for the project plan.

Sahan Fernando

1. Researched temperature sensors and their control circuits. Attended weekly meetings and worked on the project plan.
2. Worked on the user interface description for the project plan.

Tianyu Wang,

1. Worked on deliverables section for the project plan.
2. Set up a meeting with advisor on liquid and air channel with zhaokui wang.

Zhaokui Wang

1. Worked on market and literature survey for the project plan.