***Week 7 Report***

**Team: Dec1212**

**Title: Temperature and humidity control for a chip-scale seed culture laboratory**

**Client & Faculty Advisor: Dr. Liang Dong**

**Time Commitment thus far:**

Narimdinda Robert Yann Bouda - 16

Sahan Fernando - 15

Sean Belieu - 19

Ashok P. Rajan - 17

Tianyu Wang - 16

Zhaokui Wang - 13

**Accomplishments of the past week**

1. Discussed about the standards that might be used on our project.
2. Prepared the weekly report as a group
3. Decided on the Manifolds that would be used to mount the solenoids, from Clippard.
4. Decided on the micro controller that would be used in the master slave relationship between Sensiron SHT1X and the other sensors.

**Plan for coming week**

1. Prepare the documentation needed for ordering solenoids, manifold and sensors.
2. Tianyu and Zhaokui Wang will be training on PDMS devices, using masks that are already available in Dr. Liang Dong’s laboratory.

**Pending issues**

1. No pending Issues.

**Individual Contributions**

Narimdinda Robert Yann Bouda & Sahan Fernando

1. Designed a prototype circuit for Sensiron SHT1X.
2. Started preparing documentation for purchasing Sensiron SHT1X

Sean Belieu & Ashok P. Rajan

1. Discussed with Professor Liang Dong on what is the most economical ways to get the required solenoids and the manifold.
2. Started preparing documentation for purchasing solenoids and manifold.
3. Called Clippard to check if the manifold could be programmed using FGPA.

Tianyu Wang & Zhaokui Wang

1. Training on micro-fabrication to make micro channels for air and liquid flow.
2. Discovered that the right time and UV strength for SU-8 on glass devices.