WEEKLY REPORT **Date: 3/1/2013**

Group Name: Dec13-09 Digital Synthesizer

Client/Advisor: Dr. Zambreno/Dr. Neihart

Attendees/Role:

Dustin Amesbury- Leader

Brittany Oswald- Meeting Scribe

Wallace Davis- Webmaster

Darren Hushak - EE Director

John Tuohy - Communication Liaison

Dr. Zambreno - Client

Dr. Neihart - Advisor

Past week accomplishments

- Used SFML to create basic audio output (not yet on RPi)
- Created very rough sketch of software architecture
- Set up Google Code repository
- Investigated cross-compiler between laptop and raspberry pi

Plan for coming week

- Continue writing programs for the Raspberry Pi to generate different sound waves on the keypress. (John Tuohy and Dustin Amesbury)
- Continue defining the software architecture and start building the framework. (Brittany Oswald)
- Continue working to get MIDI output from the organ keys (Darren

Hushak)

- Continue working to better understand GPIO pins on Raspberry Pi (Wallace Davis)
- Find a cleaning solution for Keyboard keys (Team)

Pending issues

- Linux boot times
- Current working order of the organ (what do we keep, what do we replace?)

Individual contributions

- Brittany Oswald created a repository using Google Code, and brainstormed with the team about the basic software architecture, which she is still working on.
- Darren Hushak worked with the MIDI CPUs to create MIDI information based on key presses.
- Dustin Amesbury worked with getting code compiled from Ubuntu to Raspberry Pi.
- John Tuohy wrote code that produced audio output using the SFML library
- Wallace Davis worked on the I/O with the Pi.

Individual hourly contribution

- Brittany Oswald - 3.5

- Darren Hushak - 7
- Dustin Amesbury - 6
- John Tuohy - 8
- Wallace Davis - 4