WEEKLY REPORT   **Date: 4/15/2013**

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

- Updated and submitted the design document -Team

- Created slides for presentation on Tuesday -Wallace Davis and Brittany Oswald

- Created program which plays sound from the pi when an organ key is pressed. -Darren Hushak and Brittany Oswald

- Started implementation of mature software architecture. -Brittany Oswald, Dustin Amesbury, and John Tuohy

- Determine if PortMidi is a useful decoder for us. -Darren Hushak

- Fixed the problem with dropping bytes when the key was pushed too fast. -Darren Hushak

- Filled in information on the presentation. - Wallace Davis

Plan for coming week

- For class: meet with 492 design groups -Team

- Comment current working code. -Darren Hushak and Brittany Oswald

- Continue implementing mature software. -Brittany Oswald, Dustin Amesbury, John Tuohy, and Wallace Davis

- Figure out where to put the arpeggiation and glissando, and possibly be able to slow down the speed of the arpeggiation. -Brittany Oswald and Darren Hushak

- Start mapping out the interface, physical buttons and state of the system. Consider LED display for the current channel for each keyboard and the pedals. -Brittany Oswald

Pending issues

- None

Individual contributions

- Brittany Oswald read from the MIDI stream and played a note based on MIDI command.

- Darren Hushak started wiring second keyboard. He also updated old code to allow for polyphonic manipulation.

- Dustin Amesbury worked on formalizing the code. He wrote the Module and Mixer classes.

- John Tuohy worked on formalizing code. He wrote the AudioProcessor

class.

- Wallace Davis created the practice presentation and the base for the full presentation to the reviewers.

<u>Individual hourly contributions</u>

- Brittany Oswald - 10
- Darren Hushak - 12
- Dustin Amesbury - 6
- John Tuohy - 7
- Wallace Davis - 6