491 Weekly Status Report S2-7

12/6

Group 15

Project: Cryen

Client: Dr. Randall Geigar

Advisor: Dr. Chen Degang

Team:
- Justin Shaver - Meeting Facilitator
- Thomas Frye - Scribe
- Will Pigg - Lead Hardware
- Chandler Davis - Lead Software
- Daniel Bohlke - Test Engineer
- Caleb Hendrickson - Test Engineer

Weekly Summary

Past Week Accomplishments

- **Justin Shaver**
  - No success, but continued work on the circular buffer implementation.
- **Thomas Frye**
  - Wired components in enclosure
  - Fixed some threading issues with GPIO interface
- **Will Pigg**
  - Completed the enclosure
  - Installed the components into the enclosure
- **Chandler Davis**
  - Worked on the poster
  - Worked on the final report
  - Started work on some of the other drivers
- **Daniel Bohlke**
  - Worked on Final Report

- **Caleb Hendrickson**
  - Completion of fuzz effect
  - Implemented circular buffer for delay, chorus, and flanger functions
  - Completion of Debugging of IIR Low Pass filter
  - Tested the effects that are deemed finished with different samples and parameters to verify correctness

Pending Issues

- **Justin Shaver**
  - Still unable to effectively use Jack's c libraries to complete a circular buffer for the time based effects.
- **Thomas Frye**
  - The debouncing with the push button on the rotary encoder is still being an issue.
- **Will Pigg**
  - Need to tend to any issues with the integration of our system and enclosure
- **Chandler Davis**
  - The high-pitched noise is still there
    - Unfortunately, I am working with the team remotely and I don't have the hardware here to test it myself.
- **Daniel Bohlke**
  - Final Report
  - Test LCD Screen
  - Create Second part of screen for GUI

Individual Contributions

Name	Individual Contributions	Hours	Total
Justin Shaver	Continued work on circular buffer implementation	8	58
Thomas Frye	Wired components in enclosure Fixed threading issues in GPIO interface	8	58
Will Pigg	Completed enclosure	8	56
Chandler Davis	Started implementation of drivers	8	62.5
Daniel Bohlke	Assisted with final report	8	52
Caleb Hendrickson	Finalized the available effects	20	79

Plans for Upcoming Week

- **Justin Shaver**
  - Work on final report.
  - Upload all documents pending upload to our website.
  - Continue work on the circular buffer.
- **Thomas Frye**
  - Attempt to fix debouncing issue but may have to leave as is in the interest of time.
- **Will Pigg**
  - Sand and paint the enclosure
- **Chandler Davis**
  - Finish the driver for the stompbox switches
  - Integrate with Dan's GUI design
  - Finish work on the final report
- **Caleb Hendrickson**
  - Completion of Chorus filter
  - Testing of all effects with various samples and parameters to verify correctness and to have an idea of what our range of inputs that we allow will be
  - Handing off the prototype to Justin