

## **Sprint 3 Report - Homemade Audio Processing Effects by Guitar Effects**

### Actions to stop doing:

- The team should stop getting sidetracked during standup meetings, as it makes team meetings go over the 15 minute time slot and makes the meetings much less effective.

### Actions to start doing:

- The team has to improve their time management skills. All members were good with communication, and got some work done, but could not accomplish all user stories due to midterms and other tests, difficult assignments in other classes, and other external blockers.

### Actions to keep doing:

- We should continue to gather for group work in rooms 302 and 340, as it increases team communication and productivity.
- We should also keep up the honesty during the standup meetings, as clear descriptions of our failures gave everyone a good idea of where we are at in terms of progress.
- The new meeting time (3:00 PM) has worked wonders for us, as all members were able to gather for meetings more consistently and on time.
- Splitting the team into smaller sub-teams was a good way of handling different features (namely, making progress on getting Pure Data to run on the Raspberry Pi, and working on more effects). While the team had many blockers during the sprint, this strategy generally helped with dividing the work up and getting some work done.

### Work Completed:

- Phaser Effect
- Looper Effect
- Addition of a depth parameter in the Tremolo Effect
- Installed Raspbian/Installed Pure Data on the Raspberry Pi
- Make Pure Data work with ALSA

### Work Not Completed:

- RMS Compression Effect
- Filter Envelope Effect
- Amp Envelope Effect
- Expression Wah Effect
- Let the Pi receive audio data
- Refactor effects to be abstractions in Pure Data instead of subpatches
- Allowing for changing the ordering of effects (Deemed not feasible)

Work Completion Rate:

Number of Completed Stories: 5

Total Work Hours Completed: 26

Ideal Work Hours: 38

Total Number of Days in the Sprint: 11

User Stories per Day:  $5/11 = 0.45$

Ideal Work Hours per Day:  $38/11 = 3.45$

Average Stories per Day: 0.293

Average Work Hours per Day: 2.62