

## EE/CPRE/SE 491 BI-WEEKLY REPORT 5

March 13, 2020 - April 2, 2020

Group number: 56

Project title: Sound Effect Devices for Musicians

Client &/ Advisor: Dr. Randy Geiger

Team members/role:

Dalton Sherratt: App programming

Eric Stablein: Signal processing, meeting facilitator

Zach Besta: Signal processing, meeting scribe

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### Period summary

Over the course of this two-week period, the group began the process of adapting to the university closure. The group also continued the process of finalizing the app.

### Past period accomplishments

| Name            | Individual contributions   | Hours these two weeks | Total hours this semester |
|-----------------|--|-----------------------|---------------------------|
| Dalton Sherratt | <ul style="list-style-type: none"><li>• Added separate screen for sound editing functions</li><li>• Began implementing color coding functionality</li><li>• Began implementing recording mode, which allows users to record and save app output</li></ul>  | 12                    | 60                        |
| Eric Stablein   | <ul style="list-style-type: none"><li>• Continue work on equalizer class</li><li>• Began mapping equalizer class to user interface components</li><li>• Begin functional testing of application</li></ul>  | 12                    | 60                        |
| Zach Besta      | <ul style="list-style-type: none"><li>• Continued process of adding VolumeShaper methods to MediaPlayer classes for envelope functionality</li><li>• Integrated pitch-, speed-, and tempo-shifting into the “one-man band” demo</li><li>• Set up virtual machine for remote debugging work</li></ul> | 12                    | 61                        |

### Plans for the upcoming week

- Dalton

- Work on allowing users to hide the recording information to more easily focus on the pads
  - Finish programming the recording mode
- Eric
  - Determine how to handle user-based testing without being able to meet in-person
  - Continue with the process of functional testing for the modules
  - Document any issues encountered during functional testing on Git
- Zach
  - Determine how to handle user-based testing without being able to meet in-person
  - Incorporate the remaining features (envelopes and equalizer) into the “one-man band” demo

### **Summary of weekly advisor meetings**

No meetings took place during this period due to needing to update plans due to the university's switch to online classes as a result of the COVID-19 outbreak