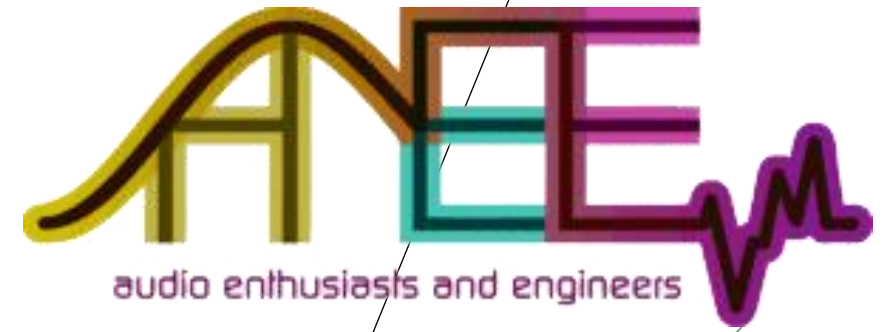# TRAVIS WRIGHT
AUDIO & COMP SCI
PORTFOLIO

C++ EQUALIZER

AEE Software Project Team-Leader

- Utilized the JUCE framework, an open-source C++ library for audio application and plugin development

- Led a team of audio enthusiasts coordinating tasks and ensuring a timely delivery while maintaining and teaching coding standards

- Implemented user interface components for real-time audio adjustments, enabling seamless interaction and precise control over sound input and output

- Conducted thorough testing and debugging to ensure stability and performance across various audio environments and platforms

C++ Equalizer

The plugin seamlessly integrates with Windows AudioFilePlayer and JUCE's Plug-In Host, enabling users to effortlessly select and play their desired tracks while unlocking a suite of advanced features:

- Real-time Spectrum Analyzer

- Custom Visual Sliders

- Bypass Buttons

Adjustable Parameters:

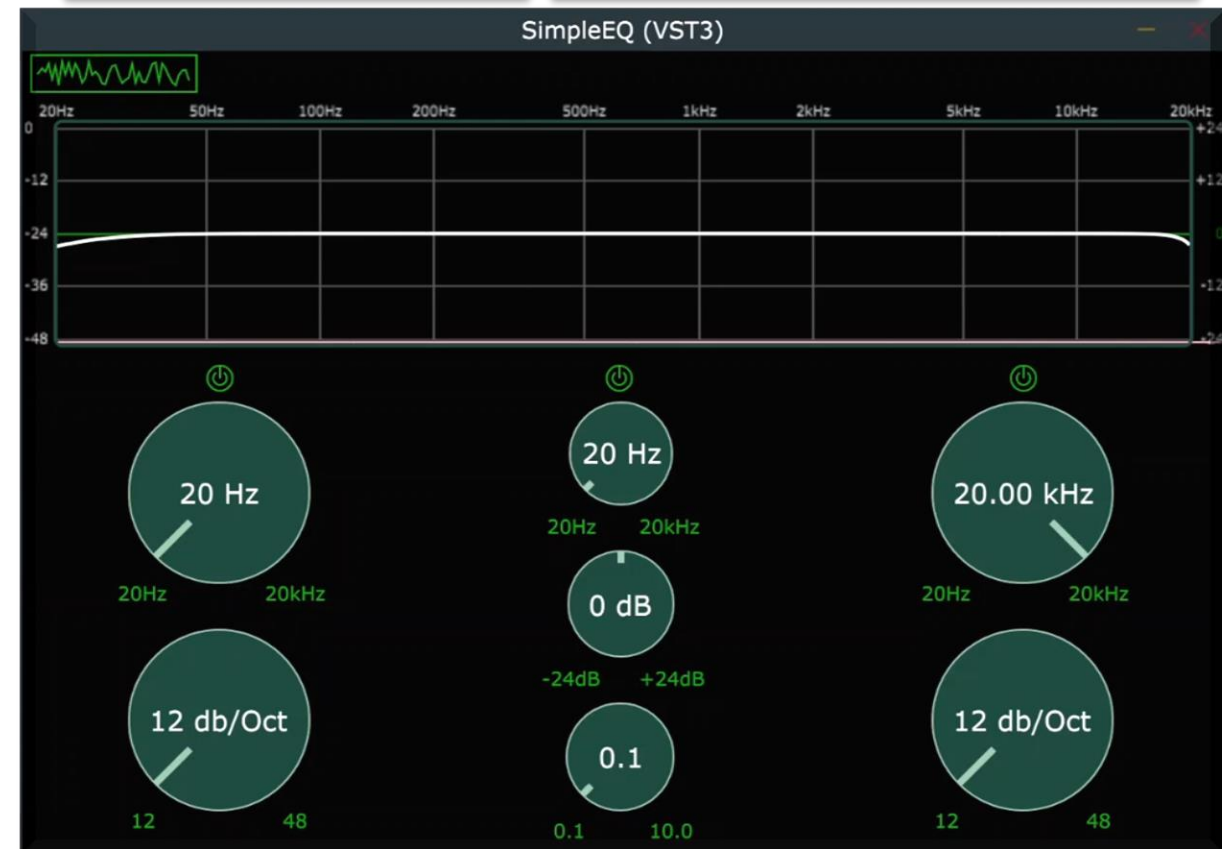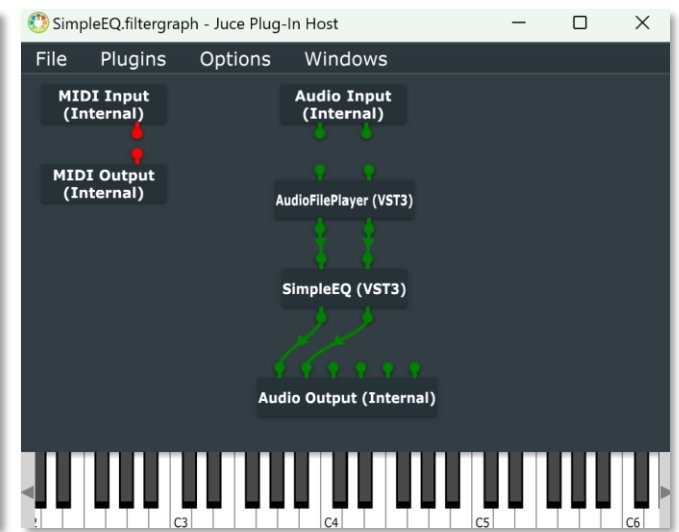LowCut Filter

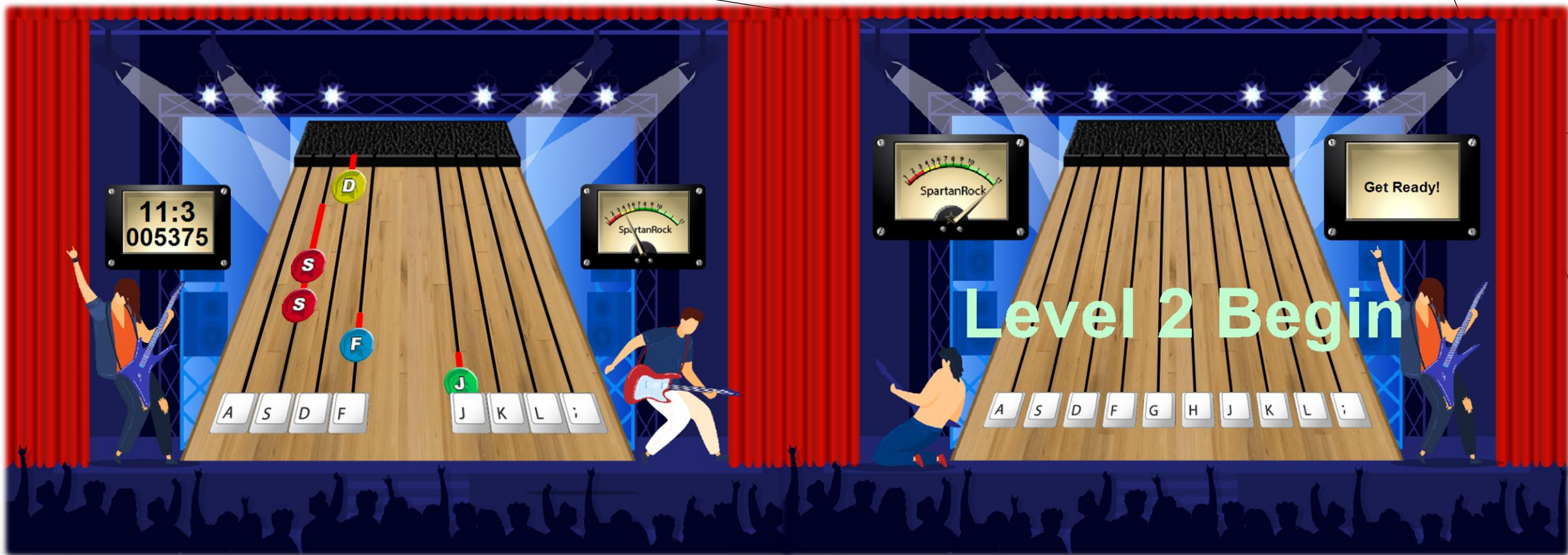- Adjust slope (12, 24, 36, 48 dB/Oct)

HighCut Filter

- Adjust slope (12, 24, 36, 48 dB/Oct)

Peak Frequency

- Select specific frequency (20hz – 20kHz)

- Increase/decrease gain (-24dB - +24dB)

- Adjust quality factor (0.1 – 10.0)

demo video ➡

CSE335:
SPARTAN HERO

Designed and developed an interactive music game reminiscent of Guitar Hero, featuring multiple levels and intricate mechanics. Created in C++ using 'wxWidgets' and 'miniaudio' libraries to manage audio playback, user interactions, scoring, and ensuring a fluid, immersive experience.

The month-long project was constructed using SCRUM techniques to manage sprints and hold regular team meetings, ensuring effective task coordination with an emphasis on robust testing and debugging:

- Utilized Trello for team-productivity management

- Adhered to Google's testing standards in conjunction with CMake

- XML file load and save compatibility

GOOGLE DATA ANALYTICS

Overview:

Completed the Google Data Analytics Certificate, mastering essential data analytics concepts and techniques. This comprehensive program provided hands-on experience in preparing, processing, and analyzing large datasets to uncover actionable insights.

Skills:

Developed expertise in data cleaning, analysis, and visualization, with a focus on data-driven storytelling and interpreting trends to support business objectives. Enhanced ability to create impactful dashboards and reports that drive informed decision-making.

- Excel: data analysis and organization using *formulas* and *pivot tables*
- SQL: queried, analyzed, and managed data in *Google's BigQuery*
- R: manipulated and displayed data using the *tidyverse* package
- Tableau: developed interactive *dashboards* and compelling *visualizations*

THANK YOU

CONTACT:

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in/travisdwright/