KYLE LAVIANA

software development x user-centered design x audio

https://laviana.me
github.com/klaviana

EDUCATION

Stanford University

MA, Music Science and Technology [CCRMA] / 2019
BSc, Symbolic Systems [conc. Interaction Design] / 2018
GPA: 3.9/4.0

AUDIO SOFTWARE EXPERIENCE

The Exocoder / *Wireless Embedded Vocoder*

-Using WiFi from two ESP32 SoC microcontrollers, I built a low-latency STFT in C++ and ChucK then motion tracked my hands to adjust the formant of vocal input by way of filtering and DSP windowing in real-time

Vermont / *Audio-Visual Composition Tool*

-Virtual Reality experience built in Unity and C#, taking MIDI input and modifying audio via Chunity

Chord Wheel / *Interactive Music Theory Web App*

-Built in Javascript, CSS, and HTML with audio from the Web Audio API. Created a strongly timed looping audio sublayer and complex circular SVG interface

Personal Website / *Portfolio*

-Built from scratch into a complex ecosystem of pages managed with Git version control. Optimized in Javascript for web accessibility and SEO best practices

SKILLS

Programming

C++ / Java / Javascript / Python / C# / C / Matlab / Git VC

Design

Unity / Solidworks / Rapid Prototyping / Lateral Thinking

Audio

DSP / DAWs / MaxMSP / JUCE VSTs / Acoustics / 3D Audio

see more @ linkedin.com/in/kyle-laviana