

AET 5430 Homework 2

Audio Software Development

Due: March 5th, 2024

1 PLUG-IN/APP PROPOSAL AND PROTOTYPE

For this assignment, you are proposing a project that you will complete over several homework assignments. In the end you will create your own custom audio software (plug-in, mobile app, desktop application). You are encouraged to think creatively to design a unique thing. This could be an audio effect or multi-effect, or a synthesizer.

Please submit two things: a written summary of the software's purpose and an initial prototype of MATLAB or C++ code. For the written summary, include a paragraph describing what your software should do. This paragraph should include information about what controls and parameters will be on the software. Also, include a paragraph about what things you will need to figure out how to do in C++ (creating delay, working with MIDI, doing an FFT, etc). For the code, I'd like to create a complete (or close to complete) example of the signal processing of the software. This might be several different functions to create a multi-effect. In the other homework assignments, you will work on porting the code over to JUCE.

2 SUBMISSION

Create a compressed zip folder of the files you are submitting: `xxxxx_HW2.zip`, where `xxxxx` is your last name. Email the zip file to: eric.tarr@belmont.edu before 11:59 pm on March 5th.