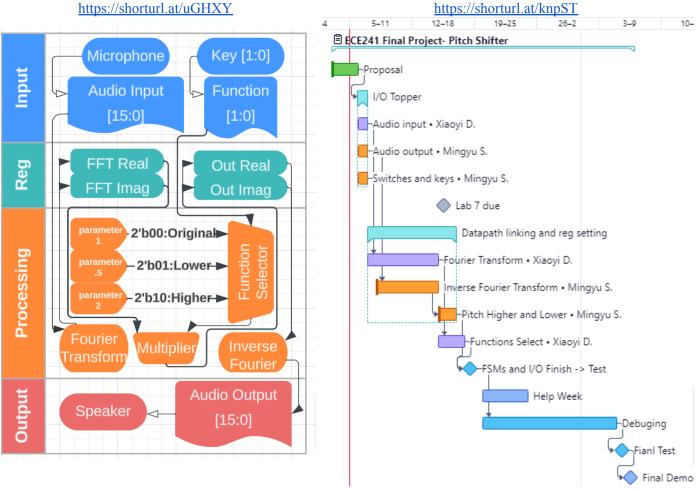
ECE241 Final Project Proposal - Pitch Shifter

1.0 Project Description:

In this project, we decided to create a pitch shifter that raises or lowers the pitch of an audio by manipulating the rate at which the signal is outputted.



3.0 Progress Plan and Milestones:



- 4.0 Division of Tasks and Points Cost:
 - 1. Finite State Machines:

Small FSM

Function Select (0.25 points) - Xiaoyi Dong

2. Datapath:

More complex datapaths

Fourier Transform (0.25 points) - Xiaoyi Dong Inverse Fourier Transform (0.25 points) - Mingyu Sun Pitch Higher and Lower (0 points) - Mingyu Sun

3. Memory:

Simple inferred memories or registered states (0 points) - Xiaoyi Dong

4. Inputs:

Audio input(0.5 points) - Xiaoyi Dong Switches and keys(0.25 points) - Mingyu Sun

5. Outputs:

Audio output(0.5 points) - Mingyu Sun