Yanni Coroneos Valentina Chamorro 6.111 DSPDude Checklist

- ☐ Be able to generate sine waves of different frequencies on the FPGA
- ☐ Be able to output different waves on each channel of the codec

Realistic Goal

- ☐ Have a working audio passthrough: SPDIF input to the AK4117, passes through the FPGA, gets sent to the codec which outputs left and right channel sound
- ☐ Be able to control volume on the codec through switches on the Nexys4

Stretch Goal

- ☐ Generate and store FIR coefficients on an SD card
- ☐ Have a working FIR filter module on the FPGA that uses the coefficients on the SD card to filter incoming audio data from the AK4117 before sending it to the codec
- ☐ Display system volume on the VGA