Week of April 6, 2020

What have I accomplished recently:

* Completed the Whitepaper Review Assignment
* Contacted Oscar Jia Jun Yu for feedback on my PCB Schematic
* Verified with test code that performing a FATFS library function f\_read on a .WAV file into a BYTE type array results in reading all the data of the WAV file with the actual sound data beginning from the 44th bit of the array.
* Verified with test code and Analog Discovery 2 (Using AD2 as an Oscilloscope) that it is possible to convert the BYTE type array into uint32\_t data that can be read by the DAC
* Obtained sample WAV files of voice audio corresponding to text from Qi Dai

What am I working on now:

* Revising my PCB Schematic based on feedback from Oscar’s email to me:
  + Connecting my buttons to the female ST Morpho connectors of the STM32F413ZHTx Nucleo board
  + Creating a ST Morpho board breakout board as my PCB design
* Testing to see if pin PC13 is a suitable pin to directly connect one of my push button inputs to.

What needs to be done next:

* Contacting Nicholas Birmingham on integrating our PCB designs together
* Completing the PCB Footprint design of the physical arrangements of the circuit components onto the PCB
* Finalizing code that reads the sample WAV audio files from Qi Dai and outputs all their sound data through the DAC.