COE-3DY4 Work Breakdown Table

Group #18

Joshua Chan - chanj94@mcmaster.ca

Sara Armanazi - armanazs@mcmaster.ca

Clara Abadir – abadirc@mcmaster.ca

Jashanjyot Randhawa - randhj13@mcmaster.ca

April 4, 2023

As a future member of the engineering profession, the student is responsible for performing the required work in an honest manner, without plagiarism and cheating. Submitting this work with my name and student number is a statement and understanding that this work is our own and adheres to the Academic Integrity Policy of McMaster University and the Code of Conduct of the Professional Engineering of Ontario **[Sara Armanazi, armanazs, 400324304]**

As a future member of the engineering profession, the student is responsible for performing the required work in an honest manner, without plagiarism and cheating. Submitting this work with my name and student number is a statement and understanding that this work is our own and adheres to the Academic Integrity Policy of McMaster University and the Code of Conduct of the Professional Engineering of Ontario **[Clara Abadir, abadirc, 400326366]**

As a future member of the engineering profession, the student is responsible for performing the required work in an honest manner, without plagiarism and cheating. Submitting this work with my name and student number is a statement and understanding that this work is our own and adheres to the Academic Integrity Policy of McMaster University and the Code of Conduct of the Professional Engineering of Ontario **[Joshua Chan, 400194033]**

As a future member of the engineering profession, the student is responsible for performing the required work in an honest manner, without plagiarism and cheating. Submitting this work with my name and student number is a statement and understanding that this work is our own and adheres to the Academic Integrity Policy of McMaster University and the Code of Conduct of the Professional Engineering of Ontario **[Jashanjyot Randhawa, randhj13, 400337963]**

Members	**Mono**	**Stereo**	**RDS**	**Multi-threading**
Sara Armanazi	-Added in lab3 files (low-pass-filter + convolve)	- Added the fmPll.py function and converted it to C++ - Wrote the BPF function in py and cpp	- Initialized all-pass filter function	- Initialized multi-threading functions
Joshua Chan	-debugging and testing -wrote, improved and completed the convolution algorithm -wrote the overall input/output functions	-rigorous debugging and testing in python and cpp -added zero padding	-edited/ changed all-pass filter function	-debugging and testing
Jashanjyot Randhawa	-help understand the theory behind the mono path	-wrote mixer function -help convert the code from python to c++ -debugging and testing	-some research behind the all-pass filter	-simple peer editing to find any errors in code
Clara Abadir	- brainstormed up and down sample values for each mode -Translated efficient convolution function (fastConvBlock) from python to c++	-wrote StereoCombiner function -edited some stereo functions -debugging	-initialized RDS file with the required functions in order	-implemented multi-threading into code in the main project file -debugging