Project Planning

Project Team: 1

Version 0.2

Status	Reviewer	Date
Reviewed		
Approved		

Project identity

Project group 1, 2013-2014 Spring semester
Chalmers Univercity of Technology

Name	Role	Phone	Email
Mohammed Elghoz	Administrative, Quality	0737062592	elghoz.m@gmail.com
Stavros Giannakopoulos	Documentation	0767651852	syannako@gmail.com
Philip Karlsson	Sound expert	0723868160	philipkarlsson@me.com
Daniel Moreau	PM	0707280870	nd.moreau@gmail.com
Joel Olofsson	Coding	0702714989	Joel.olofsson@gmail.com
Jacob Ros	Testing	0762502835	jacobro@student.chalmers.se

Contents

Version	Date	Changes	Signed	Reviewed
0.1		First draft		
0.2	102/14/2014	Minor Changes		

1   Introduction

2   Problem

3   Theory

3.1   System overview

3.2   Audio

3.2.1   Equalizer

- Introduction, What is an EQ?

- General on filters

- IRR and FIR

- direct forms 1 and 2

- Shelving filters

- Peak filters

- Putting it together (conclusion)

3.2.2   Delay

- Your stuff goes here Philip

3.3   Interface

3.4   Softcore

4 Design

4.1 System overview

4.2 Audio

4.2.1 Equalizer

- Fixed point for calculations.

- Direct from 1 due to fixed

- Relying on software FP for coefficient calculations

- Interpolation to reach a comprimize between load and precision

- 3-band but flexible

- Internal precision 32 bits, crushed while maintaining sign

4.2.2 Delay

4.3 Interface

4.4 Softcore

5   Evaluation - Reflection

6   Conclusion

References