

# **ELEC5620M Mini Project**

**DE1-SoC Pong** 

Alexander Bolton - 200938078 Sam Wilcock - 201285260 John Jakobsen -

May 2019

Submitted in accordance with the requirements for the degree of Master of Science in Embedded Systems Engineering

The University of Leeds
School of Electronic and Electrical Engineering

### Contents

1	Introduction	3
2	Display and Graphics  2.1 VGA Driver	6
3	Controls and Menus	8
4	Game Physics	9
5	Conclusion	10
6	Appendix	11
Re	eferences	12

# 1 Introduction

Introduction

# 2 Display and Graphics

#### 2.1 VGA Driver

# 2.2 Display Driver

# 2.3 Sprites and Text

#### 2.4 Game Engine Graphics

# 3 Controls and Menus

# 4 Game Physics

# 5 Conclusion

# 6 Appendix

#### References