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**ABSTRACT**

The project “VERTICAL LIFT BRIDGE SIMULATION” is used to demonstrate the use of OpenGL functions that is defined in OpenGL. Our objective is to develop a simple project to show the simulation of vertical lift bridge.

Here the user must enter the necessary parameters in order to perform the simulation of vertical lift bridge. The OpenGL can be used for interaction with the hardware. Then the result will be displayed on the screen.

This project we are working is under linux platform and are closed using C programming language with underlying tool-OpenGL which gives rich and highly usable 3D graphics.

The same program can be run on different computer and the graphics will be the same on the two machines. We make use of the “GL/glut” to implement the project. ”GL/glut” is the library that gives robust framework to create good graphical effects

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**TABLE OF CONTENTS**

ACKNOWLEDGEMENT i

ABSTRACT ii

1. **INTRODUCTION** 1

**2. INTRODUCTION TO OPENGL** 5

2.1 OPENGL FUNDAMENTALS

2.2 OPENGL API

**3.PROJECT DESCRIPTION** 13

3.1 GRAPHICAL FUNCTIONS AND REQUIREMENTS

3.2 USER-DEFINED FUNCTIONS

3.3 IMPLEMENTATION

**4. SNAPSHOTS** 44

**5. CONCLUSION AND FUTURE SCOPE** 48

**REFERENCE** 49