VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belagavi-560014, Karnataka

CGV MINI PROJECT REPORT
ON

"Amusement Park"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE CGV LAB

BACHELOR OF ENGINEERING
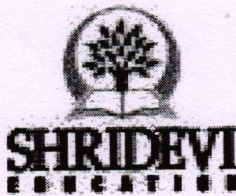### IN
COMPUTER SCIENCE & ENGINEERING

Submitted By

Emily Laura [1SV20CS009]

Under the guidance of

Mr. Renukaradhya P C B.E.M.Tech,
Assistant Professor, Dept. of CSE.

PRINCIPAL
SIET. TUMKUR.

Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated To Visvesvaraya Technological University)
Sira Road, Tumakuru – 572106, Karnataka.
2022-23

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

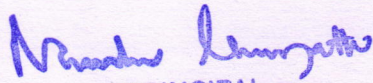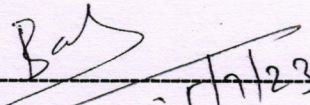## <u>CERTIFICATE</u>

This is to certify that, Computer Graphics and Visualization Mini-Project of entitled "Amusement Park" has been successfully carried out by Emily Laura [1SV20CS009],in partial fulfillment for the CGV Lab of **Bachelor of Engineering** in **Computer Science & Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year **2022-23.** It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The Mini- Project report has been approved as it certifies the academic requirements in respect of Mini-Project work prescribed for the Bachelor of Engineering Degree.
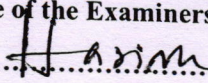
<u>**Signature of Guide**</u>

Mr. Renukaradhya P C B.E., M.Tech.,
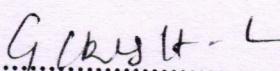Assistant Professor,
Dept. of CSE,
SIET, Tumakuru.
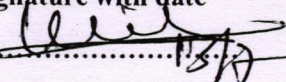
PRINCIPAL
SIET. TUMKUR.

<u>Signature of H.O.D</u>

Prof. Dr. Basavesha D M.Tech,PhD
Associate Professor & HOD
Dept. of CSE,
SIET, Tumakuru.

Name of the Examiners

1 ....Harini.........

2 ...... Glkylt - L

Signature with date

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

I, Emily Laura [1SV20CS009], student of VI semester **B.E** in Computer Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the Mini-Project work entitled **"Amusement Park"**, embodies the report of our Mini-Project work carried out under the guidance of **Mr. Renukaradhya P C**, **Assistant Professor, Department of CSE**, SIET, Tumakuru as partial fulfillment of requirements for the CGV Lab in **Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi**, during the academic year **2022-23.** The Mini-Project has been approved as it satisfies the academic requirements in respect to the Mini-Project work.

Place: Tumakuru

Date: .04.07/23

Student Name & Signature

EMILY LAURA [1SV20CS009]

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ABSTRACT

This project, "An Amusement Park" uses OpenGL to draw a virtual amusement park. The park includes Ferris Wheel, Columbus Ship Ride and Roller Coaster, all drawn using basic OpenGL primitives. The primary goal of this project was to apply the different OpenGL techniques I had learnt into a project ready for demonstration. When I thought about the scene on which I should be building on, Amusement Park came to my mind as it can involve different kind of movements associated with different kind of objects. The entire scene is placed in a skybox for a realistic sky effect. The system also features first person movement, where the viewer can move around anywhere in the scene. It also uses user interface functions through which the object can be moved according to the user wish

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