

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka



CGV LABORATORY WITH MINI PROJECT REPORT
ON

"ROCKET LAUNCH"

*SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
CGV LAB*

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING**

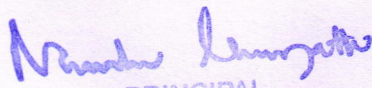
Submitted By

VAISHNAVI BHUSHAN(1SV20CS054)

Under the guidance of

Mr. Renukaradhya P C B.E., M.Tech.,

Assistant Professor, Dept. of CSE.


PRINCIPAL
S.I.E.T. TUMKUR.



Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated To Visvesvaraya Technological University)

Sira Road, Tumakuru – 572106, Karnataka.

2022-2023



Sri Shridevi Charitable Trust (R.) SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

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Sira Road, Tumakuru - 572 106. Karnataka.



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Phone: 0816-2212629 | Fax: 0816-2212628 | Email: info@shrideviengineering.org | Web: http://www.shrideviengineering.org

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, CGV Mini-Project of entitled "ROCKET LAUNCH" has been successfully carried out by VAISHNAVI BHUSHAN[ISV20CS054], 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.

Signature of Guide

Mr. Renukaradhya P C B.E., M.Tech.,

Assistant Professor, Dept. of CSE,
SIET, Tumakuru.

PRINCIPAL
SIET, TUMKUR.

Signature of H.O.D

Dr. BASAVESHA D B.E., M.Tech., Phd

Associate Professor & HOD Dept. of CSE,
SIET, Tumakuru.

Name of the Examiners

- 1.
- 2.

Signature with date

A.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

I, **VAISHNAVI BHUSHAN [1SV20CS054]**, 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 "**ROCKET LAUNCH**", 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

Student Name & Signature

Date: 04/07/2023

VAISHNAVI BHUSHAN [1SV20CS054]

...*vaishnavi bhushan*...

Nenukaradhya P C
PRINCIPAL
S.I.E.T. TUMKUR.

ABSTRACT

This project is about the launch of rocket. We are implementing it using different primitives available in OpenGL library and combining them together in a required manner. It highlights the key features of the data structures and its high-quality efficiency that is obtained on its usage in the application program.

This project consists of Olympic logo which is constructed by using different primitives available in OpenGL library. It illustrates the role of different call back functions that provides easier way to accomplish our project in an effective manner. The project has been implemented by efficiently using the data structures to obtain the optimized results and also various functions and features that are made available by the OpenGL software package have been utilized effectively.

Computer Graphics is a core technology that has numerous amounts of applications and some of it are digital photography, film making, film making, video games and many more. Computer Graphics is a discipline of generating images with the aid of computers. Some topics in computers graphics include user interface design, rendering of 2D and 3D vector graphics, computer animation, GPU design, scientific visualization, among others. Using the help of Open Graphics Library (OpenGL) and OpenGL Utility Toolkit (GLUT) this project worked out effectively as expected.

N. Srinivas Kumar
PRINCIPAL
S.I.E.T. TUMKUR.