### **Visvesvaraya Technological University, Belagavi –590014**

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**MINI PROJECT REPORT**

**ON**

**“ROCKET MISSION”**

Submitted in partial fulfillment of the requirements for the 6th semester VTU CBCS Subject namely

**COMPUTER GRAPHICS LABORATORY WITH MINI PROJECT (15SCL68)**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**For the Academic year**

**2018 - 2019**

**Submitted By**

**ROSHAN U SHETTIGAR 4SH16CS095**

**Under the Guidance of**

**MR. ROHAN DON SALINS**

Department of Computer Science & Engineering



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING.**

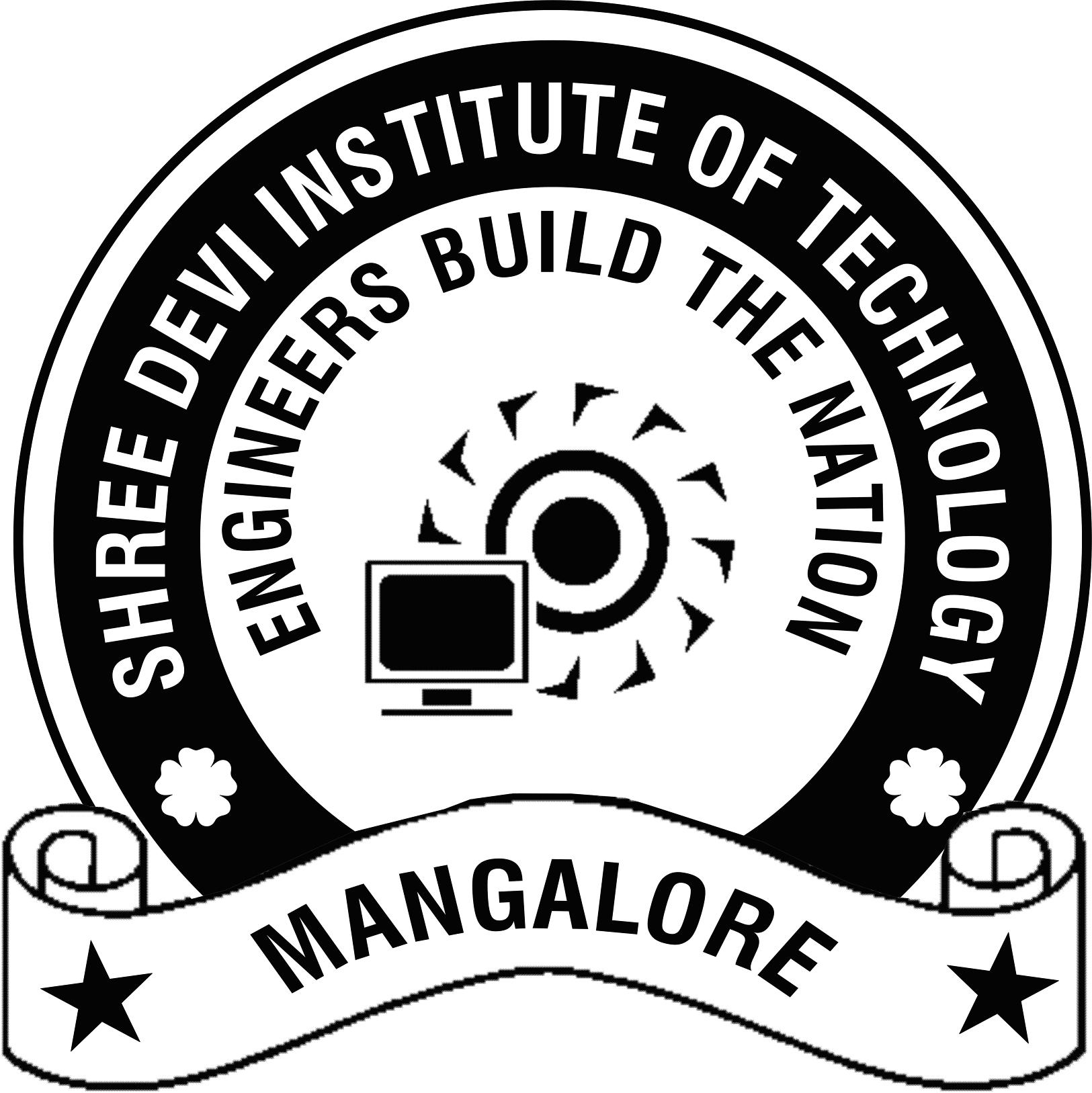
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**SHREE DEVI INSTITUTE OF TECHNOLOGY**

(An Institution under VTU, Belagavi**)**

**MANGALURU- 574 142**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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**CERTIFICATE**

Certified that the project work entitled **“ROCKET MISSION”** is a bonafide work carried out by **ROSHAN U SHETTIGAR** bearing USN **4SH16CS095** respectively in partial fulfillment for the VTU CBCS subject namely **Computer Graphics Laboratory with Mini Project**, and for the award of degree of **Bachelor of Engineering** in **Computer Science and Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2018-2019. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the degree of Bachelor of Engineering.

Signature of the HOD

**Prof. Anand S Uppar**

Signature of the Guide

**Mr.Rohan Salins**

**Dr. Dilip Kumar**

**External Viva**

Name of the Examiners Signature with Date

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**DECLARATION**

I **ROSHAN U SHETTIGAR** bearing USN’s **4SH16CS095** student of 6th semester B.E, Computer Science and Engineering Dept of Shree Devi Institute of Technology, Mangaluru declare that the project work entitled **ROCKET MISSION** has been duly executed by me under the guidance of **Mr. ROHAN DON SALINS FROM DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**, Shree Devi Institute of Technology, Mangaluru and submitted in partial fulfillment of the requirements for the **VTU CBCS subject namely COMPUTER GRAPHICS LABAROTORY WITH MINI PROJECT** and for the award of degree of **Bachelor of Engineering** in **Computer Science and Engineering** during the year 2018-2019.

**Date:**  ROSHAN U SHETTIGAR

**Place:** Mangaluru

**ABSTRACT**

Rocket Mission is designed in C++ language using OpenGL utility toolkit (GLUT). When user runs the program the rocket launch sequence starts and background changes the along with the rocket. The rocket travels into outer-space for a few seconds and then the game sequence initiates. The rocket mission game is kept simple so that the user can quickly understand the controls and objective of the game.

The game is developed using C++ language which allows for further modification and addition into the game functions. Presently the objective of the game is to avoid collision with the asteroids in space moving towards the rocket, the game displays the level, speed and score achieved by the user. Upon collision the game over screen appears. The rocket mission game has a lot of scope for further enhancement, to give a more attractive game for the user.

The computer graphics project has given me valuable experience in using OpenGL toolkit in tandem with C++ language. Finally, the project is a simple application of computer graphics which can be developed even more in the future as continue to increase my knowledge on computer graphics.

**ACKNOWLEDGEMENT**

A successful project is a fruitful culmination of the efforts of many people. Some directly involved and others who have quietly encouraged and extended their invaluable support throughout its progress.

We would also like to convey our heartfelt thanks to our **Management** for providing us with the good infrastructure, laboratory facility, qualified and inspiring staff whose guidance was of great help in successful completion of this project.

We would also like to express our gratitude to our **Director** **Dr. K E Prakash**, for providing us congenial environment to work in.

We are extremely grateful and thankful to our **Principal Dr. Dilip Kumar K** for providing the necessary facilities for achieving the cherished goal.

We feel delighted to have this page to express my sincere thanks and deep appreciation to **Prof. Anand S. Uppar, Head of the Department, Computer Science and Engineering**, for his valuable guidance, keen interest and constant encouragement through out the entire period of this project work.

We would like to thank my project guide **Mr. Rohan Don Salins from department of Computer Science and Engineering** for her valuable guidance and constant support throughout the project work.

We are thankful to all the teaching and non-teaching staff for allowing me to successfully carryout the project work.

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**ROSHAN U SHETTIGAR**

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