VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

Mini Project Report
on
"GRAPHICAL REPRESENTATION OF TRAFFIC SIGNALS"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING
by

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

(Accredited by NBA)

MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING
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Badaga Mijar, Moodabidri-574225, Karnataka
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CERTIFICATE

This is to certify that Ms. **SHAMITHA SHETTY(4MT20CS145),** Ms. **SHIKHA BALLAL(4MT20CS150)** has satisfactorily completed the mini project entitled **"GRAPHICAL REPRESENTATION OF TRAFFIC SIGNALS"** for the **CG Laboratory with Mini Project (18CSL67)** lab as prescribed by the VTU for 6th semester B.E. Computer Science and Engineering branch for the academic year 2022 – 2023.

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1. …………………………..   …………………………..

2. ………………………….   …………………………..

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ABSTRACT

Graphics and visualization is the best mean for interaction, understanding and interpretation of data. Computer graphics is basically the rendering of images using computers, usually referring to image data created by a computer specifically with the help from specialized graphical hardware and software. Open Graphics Library (OpenGL) is a cross-language, cross-platform application programming interface (API) for rendering 2D and 3D graphics. The main objective is to demonstrate the working of road traffic signal. As we all know that the traffic signals direct the flow of traffic with the exemption of signals with turning arrows which should be compulsory in accord with each other. From speed limit to directions on where and when to turn, traffic signs provide a wealth of information. Following traffic signs helps to keep everyone on the road safe by reducing the chance of drivers colliding with other vehicles, pedestrians, or cyclists. In this project we are implementing Traffic Signal. We have three lights in the signal red, green and yellow where each light has it's own meaning. Red light tells the driver to stop, green light tells the drivers can start or keep driving, Yellow light tells driver to stop when it is safe to, because the light is about to turn red. The same method we are implementing in our project which is used in real life. We have used this traffic signal in a cross to avoid, miss happening. When there is a green signal it means vehicle can move or run on the road but if this green signal turns off and the red signal is turned on then it indicates the driver to stop his vehicle and at the same the signal allows some other side vehicles to cross the road.

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LIST OF SNAPSHOTS