VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELGAVI-590018 KARNATAKA

Mini Project Report (18ECMP68)

ON

"AUTOMATIC STREET LIGHT CONTROLLER"

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

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by:

CRISPINA VIOLET.P (USN: 1SV19EC008)

SHARANA KUMAR (USN: 1SV19EC028)

Under the Guidance of:

Prof. Yogeesh M B.E., M.Tech

Assistant Professor, Dept of ECE.,SIET

Tumkuru

HOD
Dept of E&C
SIET, Tumkur-6

SHRIDEVI EDUCATION

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, Affiliated to VTU, Belagavi and approved by AICTE,New Delhi)

Sira Road, Tumkur-572106

2021– 2022

PRINCIPAL
SIET., TUMAKURU.

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, Affiliated to VTU, Belagavi and approved by AICTE, New Delhi)
Sira Road, Tumkur-572106, Karnataka
2021-2022

SHRIDEVI EDUCATION

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Certificate

This is to Certified that the mini project work (18ECMP68) entitled "**AUTOMATIC STREET LIGHT CONTROLLER**" has been Successfully carried out by **CRISPINA VIOLET.P(USN: 1SV19EC008) ,SHARANA KUMAR(USN: 1SV19EC028),** a bonafide students of **Shridevi Institute of Engineering and Technology, Tumkur- 572106,** in partial fulfillment for the award of **Bachelor Of Engineering in Electronics & Communication Engineering** of the **Vishvesvaraya Technological University, Jnana Sangama, Belagavi - 590018,** during the academic year 2021–2022. It is certified that all corrections/suggestions indicated for internal assessments have been incorporated in the report. The mini project report has been approved as it satisfies the academic requirement with respect to the mini project work prescribed for the said Bachelor Of Engineering degree.

Signature of the guide	Signature of the HOD	Signature of the principal
Prof. Yogeesh M **Assistant professor** **Dept. of ECE., SIET** **Tumakuru**	**Prof. Aijaz Ahamed Sharief** **HOD** **Dept. of ECE., SIET** **Tumakuru**	**Dr. Narendra Viswanath** **Principal** **SIET, Tumakuru**

EXTERNAL VIVA

Name of examiners:	Signature with date:
1. Raghavendra. D	28/3/2022
2. Dr. Pradeep. K. G. M	28/03/2022

PRINCIPAL
SIET., TUMAKURU.

ABSRACT

We present an Arduino-based automation system to control the streetlights based on vehicles and object's detection. We aim to design various systems to achieve the desired operations, which no longer require time-consuming manual switching of the streetlights. The proposed work is accomplished by using an Arduino microcontroller, a relay and infrared -sensors . Firstly, we show that the streetlights can be controlled based on the night and object's detection. In which the streetlights automatically turn to DIM state at night-time and turn to HIGH state on object's detection, while during day-time the streetlights will remain OFF. Secondly, the proposed automated system is further extended to skip the DIM condition at night time, and streetlights turn ON based on the objects' detection only. The proposed systems are designed at lab-scale prototype to experimentally validate the efficiency, reliability, and low-cost of the systems. We remark that the proposed systems can be easily tested and implemented under real conditions at large-scale in the near future, that will be useful in the future applications for automation systems and smart homes

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET., TUMAKURU.