

17

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



Mini Project Report (18ECMP68)

ON

*"Bidirectional visitor counter using Arduino uno and IR sensor"*

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

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING

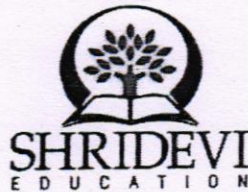
Submitted by:

K SANJAY (USN: 1SV19EC015)

REHAMAN KHAN H.K (USN: 1SV19EC023)

Under the Guidance of:

Mr. Raghavendra D.B.E., M.Tech  
Assistant Professor, Dept of ECE, SIET  
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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

*A.S.*  
HOD  
Dept of E&C  
SIET, Tumkur-6

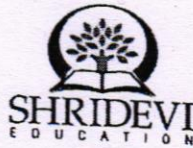
*Ramkrishna*  
PRINCIPAL  
SIET., TUMAKURU



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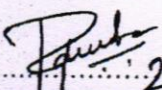
2021-2022




DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

## Certificate

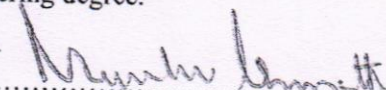
This is to Certified that the mini project work (18ECMP68) entitled "BIJECTIONAL VISITOR COUNTER USING ARDUINO UNO AND IR SENSOR" has been Successfully carried out by K SANJAY (USN: 1SV19EC015) ,REHAMAN KHAN H.K (USN: 1SV19EC023), a bonafide students of Shridevi Institute of Engineering and Technology, 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 26/7/2022

Prof. Raghavendra D  
Assistant professor  
Dept. of ECE., SIET  
Tumakuru

  
Signature of the HOD 26/7/2022

Prof. Aijaz Ahamed Sharief  
HOD  
Dept. of ECE., SIET  
Tumakuru

  
Signature of the principal

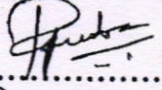
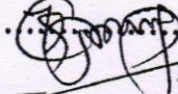
Dr. Narendra Vishwanath  
Principal  
SIET, Tumakuru

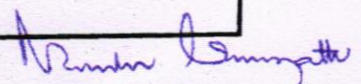
### EXTERNAL VIVA

Name of examiners:

- 1... Raghavendra D
- 2... Dr. Pradeep K. G. M

Signature with date:

  
28/7/2022  
  
28/7/2022

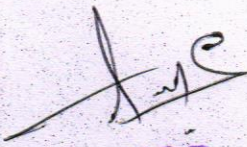


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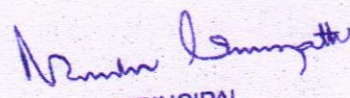


**ABSTRACT**

Automated counter system is an efficient solution for counting the number of people entering or leaving a room. This paper attempts to provide a unique solution which can automatically count the number of people. It intelligently discovers and counts the number of people with the help of internal code from the Arduino UNO. This has been achieved by using an Infrared sensor, and the development board Arduino UNO. Two Infrared sensors are placed at entry and exit of a room. The sensors acquire the data and sends to the Arduino which maintains the count. The system requires low voltage and minimum maintenance to continue the operation.



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