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



Mini Project Report (18ECMP68)

ON

"Human Detector Using IR Sensor Based On Arduino UNO"

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

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING

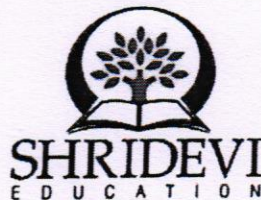
Submitted by:

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PRIYADARSHINI M (USN: 1SV19EC022)

Under the Guidance of:

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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)

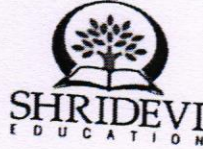
Sira Road, Tumkur-572106

2021-2022

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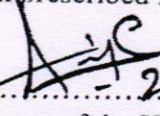


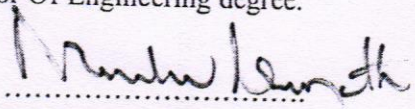
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Certificate

This is to Certified that the mini project work (18ECMP68) entitled "Human Detector Using IR Sensor Based On Arduino UNO" has been Successfully carried out by PREETHIKA A S (USN: 1SV19EC021), PRIYADARSHINI M (USN: 1SV19EC022), 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.

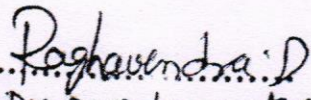

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signature of the HOD
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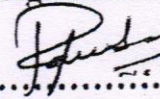


Signature of the principal
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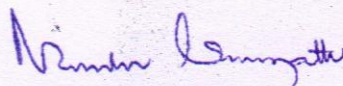
EXTERNAL VIVA

Name of examiners:

- 1... 
- 2... **Dr. P. Pradeep K G M**

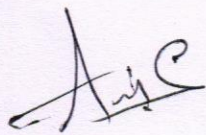
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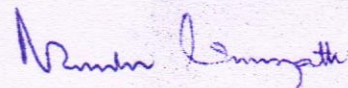

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ABSTRACT

Human presence detection is a continuously sought of an issue by the scientific community. Visual camera-based technologies have emerged recently with low cost and easy usage. However, these technologies have been increased the user privacy issues. Hence it is highly essential to design a human detection system without compromising the user privacy, comfort, cost and easy deployment. The pyroelectric infrared (PIR) based sensor systems are introduced however this technology is incapable to detect the presence of stationary human because it can detect the fluctuating signals only. In this paper, we have proposed a novel infrared (IR) based sensor system to detect the human presence either mobile or immobile in targeted locations with high accuracy. The proposed infrared (IR) sensor is designed to sense the heat radiation emitted by the human body, it detects the human presence accurately in targeted locations. The proposed IR based sensor system has successfully deployed in a targeted location and tested successfully for detecting the human presence and also other objects.



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