

A

Project Report

On

COUNT BASED ROOM LIGHT CONTROLLER

Submitted to

Department of

ELECTRONICS & COMMUNICATION ENGINEERING

By

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SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

Ananthasagar (Vill), Hasanparthy (M), Warangal.

2022-23



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CERTIFICATE

This is to certify that the project entitled "COUNT BASED ROOM LIGHT CONTROLLER" carried out by the following students of III Year B.Tech in Electronics and Communication Engineering during the academic year 2022-23.

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ABSTRACT

'COUNT BASED ROOMLIGHT CONTROLLER' is a microcontroller based project that automatically turn on or off the lights in room. Electricity, being one off the most important resources, must be utilized carefully. We often forget to switch off light or fans when we leave a room. By using this system, we can intentionally forget about the light as the system will automatically take care of them .The digital world we are living in allows us to use different technologies to automatically perform certain tasks. such automation is very useful in certain areas like energy consumption ,reducing human efforts ,improving standard of living etc. The project implemented here is one such project where the microcontroller based system automatically controls the room light. The aim of this project is to automatically turn on or off the light in a room by detecting the human movement. We implemented this project using 8051 microcontroller and to infrared (IR) sensors. Since the job of the circuit is to turn on the light when someone enters the room and turn off the light when the last person leaves the room, the project as to internally count the number of visitors entering and leaving the room. Hence, the project act as an count based room light controller.



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