

AN IOT APPROACH FOR MOTION DETECTION USING RASPBERRY PI

A Project report submitted in partial fulfilment of the requirements for the award
of degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

G.SRILEKHA

Regd.No.14811A0421

G.DEVI

Regd.No.14811A0416

D.B.LAVANYA

Regd.No.14811A0412

N.HARISH

Regd.No.14811A0445

Under the guidance of

Mr.S.VENKATARAMANA, M.Tech

ASSISTANT PROFESSOR



DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Accredited by NBA, NAAC, Approved by A.I.C.T.E, Affiliated to J.N.T.U. KAKINADA)

TAMARAM (P.O), MAKAVARAPALEM (M.O), NARSIPATNAM (R.D)

VISAKHAPATNAM DISTRICT-531113

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CERTIFICATE

This is to certify that the project entitled "AN IOT APPROACH FOR MOTION DETECTION USING RASPBERRY PI" in partial fulfilment for the of degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by G.SRILEKHA (14811A0421), D.B.LAVANYA (14811A0412), G.DEVI (14811A0416), N.HARISH (14811A0445) under the guidance and supervision during 2017-2018.

PROJECT GUIDE

Mr.S.VENKATARAMANA, M.Tech

Assistant professor

Department of ECE

HEAD OF DEPARTMENT

Mr. E.GOVINDA, M.Tech, (PhD)

Associative professor

Department of ECE

EXTERNAL EXAMINER

**HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg.&Tech.
Makavarapalem, Visakhapatnam Dist-531 113.**

ABSTRACT

An IoT Approach for motion detection using raspberry pi is used for a security alarm system using low processing power chips using Internet of things which helps to monitor and get alarms when motion is detected and sends information to a cloud server. Moreover, IOT based application can be used remotely to view the activity and get notifications when motion is detected. The information is sent directly to a cloud server, when the cloud is not available then the data is stored locally on the Raspberry Pi and sent when the connection resumes. It is for we will detect the presence of human being in a particular area. Raspberry pi is credit card sized computer that has the capability to become a camera security system when its own camera board is used. A new methodology is developed to detect motion. Passive infrared sensors (PIR) are used instead of any algorithm for motion detection. Whenever the motion is detected through PIR sensor inside the room. This kind of process can be used in industries, factories, home, shops for the security purpose.