

IOT BASED HOME SECURITY USING ARDUINO

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

of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

(NAAC Accredited , Approved by A.I.C.T.E,

Permanently Affiliated to J.N.T.U.KAKINADA)

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

VISAKHAPATNAM DISTRICT-531113

2018-2022

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CERTIFICATE

This is to certify that the project entitled “**IOT BASED HOME SECURITY USING ARDUINO**” in partial fulfilment for the 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 A. MANOHAR (18811A0401), CH. DURGA RAO (19815A0403), G. DEVI (19815A0410), G. ROHITH CHOWDARY (18811A0410) under the guidance and supervision during 2018-2022.



PROJECT GUIDE
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ABSTRACT

Incidents like thefts, fire and LPG gas leakage are very common these days. What is uncommon, is people's awareness about different systems like a smoke detector, gas leakage detectors, etc. Installing all these different detectors in order to keep the house secured is also something that is difficult to maintain. Here, we have designed an integrated home security system that would help people secure their houses from such incidents.

IOT and Arduino based Home Security System project is designed to help an individual secure his/her house from theft, fire and LPG gas leakage – all in one. This project uses four different sensors, from which data is sent over a website through IOT. Internet of Things (IoT) is basically, the network of 'things' by which physical things can exchange data with the help of sensors, electronics, software, and connectivity. These systems do not require any human interaction.