



PRAGATI ENGINEERING COLLEGE

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(Approved by AICTE, Permanently Affiliated to JNTUK, KAKINADA & Accredited by NAAC with 'A' Grade)

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ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

PROJECT INFORMATION SHEET

Abstract:

Technology provides us to control anything from a remote area. Nowadays, anyone can control a machine from all over the world. It is sometimes quite difficult to take care of a child or aged person of the house beside a job. A number of people's effort human maid to monitor their child or old parents. In this paper, a Dual Tone Multi-Frequency (DTMF) controlled robot is designed to monitor child or aged person. In which, a child or aged person can be monitored directly by a robot. The robot can be controlled by a phone call and a camera will send live streaming of Audio and Video to the robot-controller anywhere in the world. Atmega2560 used as the processor with L293D motor driver, DTMF decoder, a pair of the motor, a pair of the phone for both Receiving and Sending end and a smart phone with an internet connection to transmit audio-video.

A Computer or Smart phone is also needed in the receiving end to receive the live audio-video transmission. Arduino IDE used as the programming software. An android app named 'IP Webcam' is used for video streaming.

S.No	Roll No	Name of the student	Areas of Specialization	Project Supervisor
1	17A31B0454	MUKESH KRISHNA REDDY	Internet of Things	Sri.G.SriLakshmi
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CONCLUSION:

- Robotics technology is getting popularity in our society day by day. Nowadays Robotics are available for both home and commercial purpose. In this research, a cost-effective and simple robot is designed to monitor child and aged person. This device can be used in military applications. This device can also be used in bomb detection by adding some external sensors. The robot can be used in remote area where the human entrance is impossible. But the limitation of the device is, it needs continuous power supply and internet to operate any time. Stair or escalator lifting feature can be added.