

THE WELCOME ROBOT - “AVANTHIKA”

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

N.KARUNYA

Regd.No.19815A0417

R.PRASAD

Regd.No.18811A0428

R.UMA

Regd.No.19815A0422

B.PRASANNA GOWRI

Regd.No.19815A0401

Under the guidance of

Mr. K.V.S.GANESH, M.Tech

ASSISTANT PROFESSOR



AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

(NAAC Accredited, Accredited by NBA, 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 "THE WELCOME ROBOT - "AVANTHIKA" 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 N.KARUNYA (19815A0417), R.PRASAD (18811A0428), R.LUMA (19815A0422), B.PRASANNA GOWRI (19815A0401).under the guidance and supervision during 2018-2022.

PROJECT GUIDE
K.V.S.GANESH, M.Tech
Assistant professor

HEAD OF THE DEPARTMENT
Dr. E.GOVINDA, M.Tech, Ph.D.
Associate Professor

EXTERNAL EXAMINER

ABSTRACT

This project is aimed to develop a robot which welcomes the people by hand gestures. The entire project is developed by using Arduino. The hand gesture is a traditional way of welcoming the people, when a person enters the room the ultrasonic sensor which is placed in the robot activates the arduino and it turn into an output which controls the motors placed near the hand structure. The communication with the robot by Arduino is done by the code, embedded c, using open-source Arduino software (IDE). A Bluetooth device is connected to the Arduino Uno to control the movement of the robot. A specific application, Arduino Bluetooth controller, is handled by the user and the user can control the robot by altering the commands in the app. A motor drive is connected to the motor which feeds electricity into it in varying amounts, thereby indirectly controlling the motor speed.