A PROJECT REPORT ON A WELCOME ROBOT

A project report submitted in partial fulfillment of the requirements for

the award of the Degree of

BACHELOR OF TECHNOLOGYIN

MECHANICAL ENGINEERING

SUBMITTED BY

Pilaka Naveen Sai	Kumar (19815A0365)
Nandarapu Vasanth	Kumar (19815A0354)
Matha Raju	(19815A0390)
Gouthu Sai kiran	(19815A03A3)

Under the esteemed guidance of

Mrs. SURLA GANESH - M. Tech Assistant professor

DEPARTMENT OF MECHANICAL ENGINEERING



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An NACC & N.B.A. Accredited institution, Approved by AICTE, Affiliated to J.N.T.U Kakinada 2019- 2022

AVANTHLINSTITUTE OF ENGINEERING AND TECHNOLOGY (APPROVED BY A.L.C.I.T.E AFFILIATED TO JNTU-KAKINADA. A.P) (AN NAAC & N.B.A ACCREDITED INSTITUTION)

TAMARAM, MAKAVARAPALEM, VISAKHAPATNAM-531113



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is certify that the project work entitled "WELCOME ROBOT" is a bonafied record of work done by Pilaka Naveen Sai Kumar(19815A0365), Nandarapu Vasanth Kumar (19815A0354), Matha Raju(19815A0390), Routhu Sai Kiran(19815A03A3) in partial fulfilment of the requirement for the award of Bachelor of technology in MECHANICAL ENGINEERING by Jawaharlal Nehru technological university, Kakinada During the year 2021-2022.

PROJECT GUIDE

SURLA GANESH -Mtech

HEAD OF DEPARTMENT

V. HARIKIRAN M. Tech, (PhD)

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.