

A PROJECT REPORT ON

Fabrication of Hotel Servicing Robot

A project report submitted in partial fulfillment of the requirements for the award of

the Degree of

BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING

SUBMITTED BY

K.SATHISH	19815A0329
K.YERRINAIDU	19815A0327
B.ARUN KALYAN	19815A0304
K.JAGADEESH	18811A0313

Under the esteemed guidance of

Mr. V.V.NAIDU 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

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(APPROVED BY A.I.C.I.T.E AFFILIATED TO JNTU-KAKINADA, A.P)
(AN NAAC & N.B.A ACCREDITED INSTITUTION)

TAMARAM, MAKAVARAPALLEM, VISAKHAPATNAM-531113



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is certify that the project work entitled **“Fabrication of Hotel Servicing Robot”** is a bonafied record of work done by **K.SATHISH (19815A0329), K.YERRI NAIDU (19815A0327), B.ARUN KALYAN (19815A0304), K.JAGADEESH (1881A0313)** 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 2017-2021.

V.V. Naidu

PROJECT GUIDE
V.V. NAIDU

V. Harikiran

HEAD OF DEPARTMENT
V. HARIKIRAN M.Tech, (Ph.D)

EXTERNAL EXAMINER

Abstract

Fabrication of Hotel servicing Robot

The objective of the project is to develop the robo which can function as a Hotel server. Which will be capable of taking orders from customers and serve food.

With rapid advances in technologies, especially in artificial intelligence, smart sensors, big data analytics, and robotics, the service industry began introducing robots to perform a variety of functions. While the main purpose of deploying robots has been productivity improvement, the current COVID-19 pandemic has brought more urgent purpose, providing contactless service for social distancing. This study explores the service quality provided by robots based on real data in a hotel setting

The study aims to provide a sustainable development model for the restaurant business, which is suffering from a shortage of manpower. The study identifies the relationships among serving robots' attributes, perceived benefits, perceived risks, perceived value, satisfaction, and revisit intention of customers. Moreover, satisfaction has a positive effect is of high importance. Based on these findings, several meaningful theoretical and practical implications that can lead to the sustainability of restaurants are presented.



Figure 1: Portable Robot Servicing in Hotel