

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama” Belagavi – 590018



Mini Project Report on

“Voice Controlled Robot”

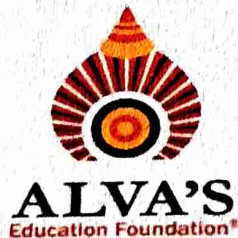
Submitted in partial fulfillment of the requirements for the award of degree

**BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING**

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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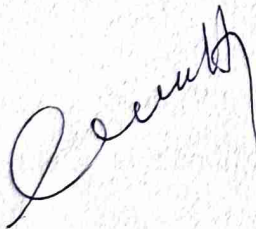
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the following students,

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has submitted Project synopsis on "**Voice Controlled Robot**" for VI Semester B.E. in Electronics & Communication Engineering during the academic year 2023-24. The mini project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Mini Project Guide

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ABSTRACT

Voice signal plays a major role in the communication among human beings. Robots reduce the human efforts in their day-to-day tasks. In this project, a voice-controlled robot is developed. The human voice commands are taken by the robot through an android application with a micro controller. The voice signal commands are directly communicated to the robot using Bluetooth.

The robotic vehicle is controlled by voice commands received from the user. The development of the robotic vehicle is carried out using two DC gear motors associated with micro-controller at the collector side. The commands from the application are changed over in to computerized signals by the Bluetooth RF transmitter for a fitting reach (around 100 meters) to the robot.

At the receiver end the information gets decoded by the receiver and is taken care of to the micro-controller which drives the DC motors for the fundamental work. The voice-controlled robot is designed and implemented to reach out the necessary undertaking by paying attention to the commands of the user.

An earlier preliminary meeting is required for the smooth activity of the robot by the user. A code is utilized for offering guidance to the user. Performance valuation is carried out with appreciable results of the initial experiments.

Keywords: Robot, Plan, Voice control, Micro controller, Bluetooth, Computerization and Performance.