

VOICE ACTIVATED ARDUINO BLINDS USING BLUETOOTH

A PROJECT REPORT

**SUBMITTED IN PARTIAL FULFILLMENT OF REQUIREMENTS FOR THE AWARD OF
THE DEGREE OF**

BACHELOR OF TECHNOLOGY

ELECTRICAL ENGINEERING

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To



DEPARTMENT OF ELECTRICAL ENGINEERING

FACULTY OF ENGINEERING & TECHNOLOGY

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(JAN. 2023)

CANDIDATE'S DECLARATION

We hereby certify that the work which is being presented in this project report entitled '**VOICE ACTIVATED ARDUINO BLINDS USING BLUETOOTH**', in partial fulfillment of requirements for the award of degree of BACHELOR OF TECHNOLOGY in ELECTRICAL ENGINEERING, submitted to the Dept. of Electrical Engineering, Faculty of Engg. & Technology, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonapat (Haryana) is an authentic record of our own work carried out during a period from July 2019 onwards under the supervision of Dr.SANJU SAINI., Assistant Professor, EED, DCRUST, Murthal. The matter presented in this project report has not been submitted to any other University / Institute for the award of B. Tech. or any other Degree / Diploma.

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ABSTRACT

The goal of this project is to build a voice-activated blind automation system using an Arduino, a Bluetooth module, and a DC motor.

The automatic or semi-automatic control of features of private residences, such as gates, doors, and even windows, is known as home automation. This project shows a flexible remote control system that can operate any electrical home appliance. simply by issuing orders using a smartphone application.

Additionally, dwellings are growing smarter as technology develops. Traditional switches are quickly being replaced by centralised control systems with remote-controlled switches in modern homes. Due to their dispersion across the house, typical wall switches are now challenging for users to access. It is significantly more difficult for the elderly or people with physical disabilities to do so. The most cutting-edge option for cellphones is a remotely controlled home automation system. This is accomplished by connecting a Bluetooth module to the Arduino board at the receiver end, and using a mobile phone GUI application to broadcast ON/OFF commands to the receiver end, where the associated loads are situated.

In this project, we basically focuses on bringing this automation to the curtains which turn on and off on receiving voice commands. A microcontroller will collect inputs from a microphone to listen some wake words like "on" and "off," and then drive a small DC motor in the commanded direction.By this application we will be controlling the motion of blinds.

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