

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama” Belagavi – 590 010



PROJECT REPORT ON

**“SMART GLOVE IN HOME AUTOMATION FOR
DISABLED PEOPLE”**

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

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

Submitted By

Name	USN
Nixon Sharma B	4AL11EC017
Sampath D	4AL13EC073
Arun kumar H	4AL14EC401
Megha S D	4AL14EC407

Under the Guidance of

Mrs. Bhagyashree K

Assistant Professor

Department of E&C Engineering



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225.

2016-2017

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225

(Affiliated to VTU, BELAGAVI)

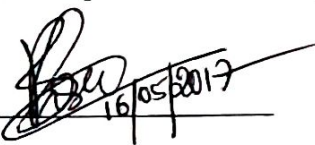
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

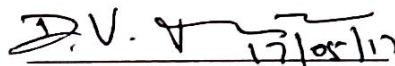
Certified that the project work entitled "SMART GLOVE IN HOME AUTOMATION FOR DISABLE PEOPLE" is a bona fide work carried out by

Nixon Sharma B	4AL11EC017
Sampath D	4AL13EC073
Arun kumar H	4AL14EC401
Megha S D	4AL14EC407

in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS & COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2016–2017. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.


16/05/2017

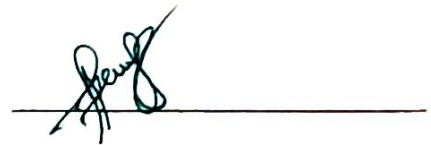
Signature of the Guide
Mrs. Bhagyashree K


17/05/17

Signature of the H.O.D
Dr. D V Manjunatha
H. O. D.

Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

EXTERNAL VIVA



Signature of the Principal
Dr. Peter Fernandes

Name of the Examiners

Signature with date

1.....

.....

2.....

.....

ABSTRACT

Home automation industry is growing rapidly; this is fueled by the need to provide supporting systems for the elderly and the disabled especially those who live alone. Coupled with this, the world population is confirmed to be getting older. Home automation systems must comply with the household standards and convenience of usage. This project details the overall design of a wireless home automation system which has been built and implemented. The automation system uses a smart glove which is made by using flex sensors and uses low-power hc-05 Bluetooth wireless communication modules which are relatively cheap. The home automation system is intended to control all lights and electrical appliances in a home or office using smart gloves.

This project presents the design of the low-cost smart glove based home automation system for the physically challenged people to control the various home appliances and can actuate the brightness of the lamp. The proposed system consists smart glove module which contains the flex sensors, Bluetooth, Arduino ATmega 328 microcontroller, relay circuit and a dimmer circuit.

The result of the project is, whenever there is the bend in the flex sensor the corresponding appliances will get turn on. Whenever the flex sensor is in the relax mode the appliances will be in the off mode.