VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

PROJECT REPORT ON

"SMART GLOVE IN HOME AUTOMATION FOR DISABLE PEOPLE"

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

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

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CERTIFICATE

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

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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 | 17/05/17 |

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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.