

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

Belagavi – 590 010



## **PROJECT REPORT**

**ON**

### **“AN ELECTRONIC DESIGN OF A LOW COST BRAILLE HANDGLOVE”**

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

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

**Submitted By**

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**Under the Guidance of  
Mrs. Jyothi Pramal  
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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**

**MOODBIDRI – 574 225.**

**2015-2016**

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOOBBIDRI - 574 225

(Affiliated to VTU, BELAGAVI)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

## CERTIFICATE

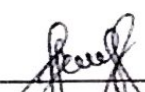
Certified that the project work entitled "**AN ELECTRONIC DESIGN OF A LOW COST BRAILLE HANDGLOVE**" is a *bona fide* work carried out by

|                  |            |
|------------------|------------|
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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 2015-2016. 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.

  
Signature of the Guide  
Mrs. Jyothi Pramal.

  
Signature of the H.O.D  
Prof. Raghavendra Rao A.

  
Signature of the Principal  
Dr. Peter Fernandes.

H.O.D.

Dept. Of Electronics & Communication  
Alva's Institute of Engg. & Technology  
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EXTERNAL VIVA

Name of the Examiners

Signature with date

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## ABSTRACT

The design of Braille Hand glove comprises of a majority of electrical components. It produce a product to perform vibrations in six position of blind person's right hand. A low cost and robust design will provide the blind with an affordable and reliable tool with the new technique and communications method for blind persons. Braille is an important language used by the blind to read and write. It is vital for communication and educational purposes. Braille uses raised dots in groups of six which are arranged in three rows and two columns. This clearly means that there can be a one to one correspondence between Braille characters and text. These six positions are matched to six values of Braille code. Low cost Braille hand glove for blind people uses slot sensors and vibration motors with the help of which they can read and write. This glove allows the person to type characters based on different Braille combination using six slot sensors. The vibration in six different positions of the glove which matches to the Braille code allows them to read characters.