

VISHVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM- 590010



Project report

On

**“MULTILINGUAL BRAILLE MACHINE”**

(Approved by KARNATAKA STATE COUNCIL FOR SCIENCE AND  
TECHNOLOGY, IISC, BANGALORE for financial aid)

*A dissertation submitted to the Vishvesvaraya Technological University  
During the academic year 2009-2010 in practical fulfilment for the award of*

**Bachelor's Degree**

**In**

**INDUSTRIAL AND PRODUCTION ENGINEERING**

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**Project guide**

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## **ABSTRACT**

All the successful achievements in science and technology in this world are due to human endeavor and curiosity for new inventions and developments. In this search there has been a considerable achievement in the information evolution in the last 30 years that is from minicomputers of 1970s to desktop PCs of 1980s to laptops of 1990 and now peripheral interface controllers of microchip technology. These 14-bit microcontroller possesses its own array of features that make them attractive for wide range of applications in laboratories, hospitals and chemical industries.

We know that blind people read books, which are punched by manual system. This punching is not uniform and hence blind people will find difficult to recognize some of the letters. We have designed an electronic system using microcontroller that punches the paper uniformly as guided by microcontroller. The software written in to the system monitors all the operations of the system. All the letters are entered into microcontroller's memory in consecutive memory locations by using keyboard. When a particular text is entered the microcontroller punches letter by letter on paper continuously until whole text is punched. This process can be used to punch the whole textbook.

The software of the project has been written in assembly language and entered into the chip. This project has been commercialized by making small changes in hardware and software. The software of the project is designed by using MP-LAB (Microprocessor Lab) software in personal computer and entered into microcontroller IC through RS-232 serial card.