Braille Language Text Conversion using Vibration Sensing Unit

Shraddha Rajendra Jadhav, Girija Prasad Kulkarni, Rohan Shashikant Patil,
Mahendra Ashok Thorat, Prof. S.D.Patil

Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra, India

Abstract: *The major goal of this project is to design and construct a Multi-Lingual Braille System Output Device for visually impaired people that will allow them to access and read computer texts. The device collects English texts and displays them with the help of a controller. It can also make a sound that corresponds to the displayed characters. The cells are controlled by a microcontroller called a Programmable Interface Controller (PIC). The Universal Serial Bus is used to communicate between the device and the computer (USB). The program that controls this interaction is written in the VB.net programming language. For the visually impaired to keep up with technology breakthroughs, such devices must be developed on a continuous basis. The inexpensive cost, the added multilingual, and the audio features are the key advantages of this system. Many other features, such as new languages and the Grade 2 Braille System, can be added to meet the demands of the users.*

Keywords: Braille System

REFERENCES

[1]. Electronic Braille Alphabet Reader for Multilanguage", Khajavali Kovvuru, D. Jaya Kumar, S. Nanda Kishore, International Journal of Recent Technology and Engineering(IJRTE)

[2]. "Braille Keypad", Aneeta Jimmi, Athira V, Mahesh V, Sneha Sethumadhavan Department of Electronics and Communication Marian Engineering College, Trivandrum

[3]. "The Design and Development of a Multi-Lingual Braille System Output Device with Audio Enhancement"- Michel J. Owayjan, Taimour Z. Wehbe, Elie Y. Bou Daher, Omran A. Ayoub

[4]. "Learning Aidin Braille and Typography", Siddhesh Sushil Shirsekar Sir J. J. Institute of Applied Art Mumbai, India

[5]. "Braille-based Text Input for Multi-touch Screen Mobile Phones", Hossein Ghodosi Fard Bie Chuangjun, School of Computing Blekinge Institute of Technology SE – 371 79 Karlskrona Sweden

[6]. "Braille Lite Millennium Series M20", Dancing dots, 2007 http://www.dancingdots.com/noteker.htm

[7]. Indiana University, "Alva Braille Display 570 Satellitepro," 2002 http://www.indiana.edu/~iuadapts/technology/hardware/b