VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

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B.V.BHOOMARADDI COLLEGE OF ENGG. & TECH. HUBLI-580031

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(An autonomous Institute under VTU, Belgaum)

Department of Instrumentation Technology

A Project Report on

Voice Recognition and Joystick Controlled Motorized Wheelchair

(Approved and Sponsored By K.S.C.S.T)

Under the Guidance of

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ABSTRACT

The present project intends to focus on providing rehabilitation for disabled and in certain cases alternative approach to ensure the full, equal and active participation of the disabled to enhance their social, economical and vocational rehabilitation by way of developing a voice/joystick operated intelligent motorized wheelchair

The speed and direction of the chair which can be controlled by pre-decided suitable voice commands. The speech recognition system is a completely assembled and easy to use programmable speech recognition circuit. Programmable, in the sense that you train the words (or vocal utterances) you want the circuit to recognize. This board allows you to experiment with many facets of speech recognition technology. It has 8 bit data out which can be interfaced with any microcontroller to give commands to motors.

Speech recognition will become the method of choice for controlling appliances, toys, tools and computers. At its most basic level, speech controlled appliances and tools allow the user to perform parallel tasks (i.e. hands and eyes are busy elsewhere) while working with the tool or appliance.