VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM

Head Movement Based Voice Activated Devic For Physically Challenged People

A project report submitted in partial fulfillment for the requirement for the degree of

Bachelor of Engineering
in
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Abstract

Nowadays disabled persons are facing many problems as they need a person to manually to do their work. It is also not possible for the care taker to be with them all the time. As we know that in today's life automation is developing in every field. To grow life in faster manner automation plays an important role. With respect to automation a simple and effective device is developed towards the disabled persons. The concept behind this project is to develop a head movement controller that can be easily controlled by the disabled person. This application includes MEMS accelerometer which is placed on the head of the disabled person and depending on the movements made the basic needs are announced and displayed. Our module will obtain signals from the MEMS accelerometer which directs the movement of the head. The main aim of the project is to design and construct a head movement controlled device switching system for physically challenged. The user can wear this device on head and with simple head movements he can request for the basic needs like water, food or medicine. User can also control electrical devices like fan, light etc. with the help of head movements.