Visvesvaraya Technological University

BELGAUM

A

PROJECT REPORT

ON

"WIRELESS ACCELEROMETER MOUSE"

(Sponsored by **KSCST** under 35th series of SPP. Ref: 7.1.03/SPP/1302)

Submitted in partial fulfillment of the requirements for the Award of Bachelor's degree in Electronics & Communication Engineering

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ABSTRACT

The accelerometer based mouse can be treated as the new age input device. It is more natural in its feel and provides the user with better ease of use. Avoiding the Use of touch screen based monitor, devices, e.t.c., this Accelerometer can replace the use of mouse and keyboard and make the work easier and faster without any hustle. This device can be used anywhere anytime with PC. The strain and stress causing the eye can be immensely reduced by using this accelerometer mouse.

The aim behind the project is to be able to sense the movement of a user's hand and use it to control the movement of mouse on screen. For sensing hand movement, we use an accelerometer. This would give us the acceleration sensed by the device in each axis. We use this data to find the change in movement of mouse pointer, which is then transmitted serially to the host computer using RS 232 communication.

Wireless Accelerometer Mouse can be implemented in various applications. It is found useful for Handicap and Disabled persons. It is useful for giving presentations on larger screen wherein the person need not be close to the screen all the time as the Accelerometer works for the range of about 30m. Further it can be implemented for 3D gaming and other interactive based applications.