Paper No: PU-SOE- ECE - 02

Gesture Controlled Patient Assistance System

Nanditha H G[1], Subhankar Ray[1], **Zafar Khan[1]**, Syeda Zeba Naiyer[1], Ghouri Iqbal Khan[1]
1. Department of Electronics and Communication Engineering Presidency University, Bangalore, Karnataka, India

Abstract

The purpose of the Scheme is to have an economical, dependable scheme to provide effective communication for paralytic patients and nurses. A motion detector, generally an accelerometer will be attached to any movable part of the body of the patient. A patient can direct information effectively to the medical attendant by changing the direction of the movement sensor. The tilt angle will be directed to the controller to which the sensor is being connected. Based on different tilt angles it will send different information through a wireless channel from a patient (transmitter) to a nurse (receiver). Each individual will have such devices mounted on their body and all the devices will be connected to the common point of the receiver at the nurse side. Alongside this there will be an RTC module connected with the system at the nurse side as a treatment notice and a beeper will simplify the work. The venture gives a helpful, dependable, and huge answer for elementary issues viewed by medical attendants while offering help to handicapped patients.

Keywords:

Accelerometer; arduino; gesture controlled; patient assisatant;RF module;wireless;cost effective.

Publication Details:

Journal Name	Vol.	Month & Year	Page No.	Publisher	Scimago Ranking
Journal of Xi'an University of Architecture & Technology	12 (12)	Dec, 2020	426-433	Science Press	Q2