

ANALYSIS OF HUMAN LIMBS MOTION BY DESIGNING WEARABLE WIRELESS DEVICE MESSAGE ALERT SYSTEM FOR VARIOUS APPLICATIONS

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ABSTRACT

Motion sensing has played an important role in the study of human biomechanics as well as the entertainment industry. Although existing technologies, such as optical or inertial based motion capture systems, have relatively high accuracy in detecting body motions, they still have inherent limitations with regards to mobility and wearability. Most of the existing systems need wiring that commands the natural movement. In this project, to overcome this flaw, a wearable wireless sensor network with message status using accelerometers and flex sensor will be about to be designed in this undertaking. The wireless feature enables the uncontrolled movement of the human body as obstruct to a wired monitoring device & makes the system truly movable. Patient monitoring systems are gaining their importance as the fast-growing global elderly population increases demands for caretaking. These systems use wireless technologies to transmit vital signs for medical evaluation. Tracking of human motion has attracted significant interest in recent years due to its wide ranging applications such as rehabilitation, virtual reality, sports science, medical science and surveillance. In our project we will introduce the FLEX sensors, MEM sensors & GSM Technology.

KEYWORDS: Flex Sensors, MEMS, GSM, Microcontroller