

SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION

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AGALAKOTE, TUMKUR – 572107

KARNATAKA



SIDDHARTHA

Project Report

On

“AN INTELLIGENT FULL TIME PATIENT PARAMETER MONITORING SYSTEM”

Submitted in partial fulfillment of requirements for the award of degree of

BACHELOR OF ENGINEERING IN MEDICAL ELECTRONICS

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ABSTRACT

Healthcare is the main cause of governmental expenditures around the world, and healthcare systems are under pressure to lower costs and improve outcomes. New demands for better public health services (PHS) has enhanced the state of electronic health (e-Health) systems towards concepts such as patient-centric, ease of use, smarter interactions, and accuracy of decisions. While e-Health services aim to provide continuous medical and health services for public and professionals, limitation of access to experts such as nursing is still a challenge. In today's world, a major challenge that every country faces is healthcare.

In emergency cases we need to begin to look at ways of easing the workload on current healthcare professionals so that they can take on more patients and need less time to diagnosis. This is where advancements in biomedical technology come into play. There are certain basic physiological signals or vital parameters such as the electrical activity of the heart, temperature, the blood pressure, EEG and the blood oxygen concentration which can be measured to provide a holistic view of a patients' health.

In this project, we propose a new framework, namely " An Intelligent fulltime patient parameter monitoring system" that provides a virtual nurse agent installed on the client's personal computer or smart phone to control the client's health condition continuously.

This project can be implemented in two parts VN using Labview and patient monitoring system using embedded hardware and Embedded C. Then integrate both so that full potential of objective is met. VN is the front end of the whole system with dedicated patient data architecture stored in simple text format with LABVIEW interface. The data generated by the patient parameter monitoring system is continuously transmitted to the VN agent residing in a PC. VN transmits the data or informs the concerned physician/doctor about patients' condition in emergency cases for expert advice.