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27 | Page 3.1. Heart Rate Sensor Heart beat sensor is designed to give digital output of heart beat when a finger is placed on it. When the heart beat detector is working, the beat LED flashes in unison with each heart beat. This digital output can be

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*Page 11/37*

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Homecare is the provision of health care services to patients in their own home. One of the main purposes of homecare telemedicine is to develop a wireless, low-cost and use-friendly system which allows patients to measure their own vital signs, such as heart rate

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and temperature, and provide the health care professionals with the facility to remotely monitor the patient's vital signs quickly ...

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can measure and monitor the patient ' s condition. This project describes the design of a

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simple, low-cost microcontroller based wireless patient monitoring system. Heart rate of the patient is measured from the thumb finger using IRD (Infra Red Device sensor). Pulse counting sensor is arranged to check whether the heart rate is normal or not.

~~Microcontroller Based~~

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~~Heart Rate Monitor~~

The system reads, stores and analyses the heart beat rate signals

repetitively in real-time.

The hardware and software design are oriented towards a single-chip microcontroller-based system, hence...

~~(PDF) Microcontroller~~

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Monitor

This project describes the design of a simple, low-cost controller

based wireless patient monitoring system.

Heart rate of the patient is measured from the thumb finger using IRD (Infra Red Device

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check whether the heart rate is normal or not. So



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that a SMS is sent to the  
mobile... CONTINUE  
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With Microcontroller  
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The device alarms when the heart beat & the body temperature exceed the provided threshold value. This threshold value is defined by the programmer at the time of programming the microcontroller 89C8051. The threshold value given for the project is as 20 to 120 pulses per minute for

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heart beat indication &  
18 ° C to 38 ° C for  
temperature.

~~Wireless Patient~~ For

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Wireless system is used to transmit the measured data to a remote location. The

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heartbeat sensor counts  
the heartbeat for specific  
interval of time and  
estimates Beats per  
Minute while the... For

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is placed on it When the  
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working, the beat LED  
flashes in unison with

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The analyses of

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Telemetry For

electrocardiogram (ECG) and heart rate variability (HRV) are of primordial interest for cardiovascular diseases. The algorithm used for the detection of the QRS complex is the basis for HRV analysis and HRV quality will depend strongly on it. The aim of this paper is to implement HRV analysis in real time on

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an ARM  
microcontroller (MCU).

Thus, there is no need  
to send raw data ...

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~~Embedded System~~

~~Based on an ARM~~

~~Microcontroller to~~

~~Analyze ...~~

The heart beat  
monitoring using  
microcontroller

PIC18f46j50. A pair of

LED and LDR is used

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as sensor for sensing the pulses of heart. The signal is generated when a finger is placed between LED and LDR.

~~Design and Development of PIC Microcontroller based ...~~  
Heart rate sensor gives digital output of heart rate when a finger is placed on it. The beat

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LED on sensor flashes with each heart beat, when the heart beat detector is working. The output of sensor is then connected to PIC controller directly to measure the Beats per Minute (BPM) rate.

~~GSM Based Heart Rate and Temperature Monitoring System~~

These devices has pulse

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sensor inside them to sense the pulse rate.

Today, we will also use a pulse sensor with PIC

### Microcontroller For

count heart beat per minute and the Inter-Beat Interval, these

values will be further displayed on 16x2

character LCD. We will

use PIC16F877A PIC microcontroller in this

project.

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Heart Beat Monitoring  
Based Wireless  
using PIC

Microcontroller and

Pulse ...  
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This paper describes the development of wireless monitoring of a heart rate based on a microcontroller. We can record the ECG signals and Heart beats of all patients in a single computer. These

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biomedical signals are  
acquired and then  
processed with a  
microcontroller.

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~~Wireless monitoring of  
Heart Rate using  
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monitor the ecg, body  
temperature, heart rate

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and blood pressure of an infant baby for clinical support decision system.

I am using a PIC

Microcontroller for the design and will ap...

~~PIC Microcontroller  
Based ECG, Body  
temperature, heart rate~~

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The heart of the  
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Monitor is the



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ADS1293 device (analog front-end) and the CC2541. device (Bluetooth-low energy SOC) as shown in Figure 1. The ADS1293 device is a highly integrated low-. power analog front-end (AFE) that features three high-resolution ECG channels. The CC2541 system-on-.

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title={Microcontroller  
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Sensor}, author={Liena  
Elrayah Abdelkhair  
Khair elseed},  
year={2011} } figure  
2.1 figure 2.2 figure 2.3  
figure 2.4 figure 2.5

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figure 2.6 figure 3.1

table 3.1 figure 3.2

figure 4.1 figure 4.2 ...

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Using Fingertip ...~~

MAX30100 sensor is integrated pulse oximetry and heart rate monitor module. It communicates with the I2C data line and provides the SpO2 and

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Pulse information to the host microcontroller unit. It uses photodetectors, optical elements where red, green IR LED modulates the LED pulses. The LED current is configurable from 0 to 50mA.

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