

Wireless Health Monitoring System



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SHORT DESCRIPTION:

The main aim of the project is to monitor heart rate, humidity, Temperature and blood oxygen saturation level of human body. This system designed by using ATMEGA32 microcontroller to monitor our health condition in a little time. Corona Patient can be benefitted from this technology the most. In our system we use ATmega32 microcontroller and Pulse Oximeter and Heart Rate Sensor. SMS will be sent to the patient in case of any critical situation.



Pulse Oximeter and Heart Rate Sensor



This Instrument will measure blood oxygen saturation level and Heart rate

Humidity and Temperature Sensor :

This Instrument will measure humidity and Temperature of human Body.



LCD Display

The data from the pulse oximeter and heart rate sensor will be shown on LCD Display Unit.



Atmega32:

Data Transmission to Bluetooth Module if necessary
Connected to GSM module



BlueTooth Module:

Sending Data to Atmega32 if condition is not good



Buzzer:

Patient can buzz if any emergency occurs.



GSM MODULE :

SMS will be sent to the patient in case of any critical situation.



Procedure :

1. First, we will set our finger on the Pulse oximeter and Heart rate sensor.
2. Atmega32 will send the data to LCD display unit. If the data is alarming, Atmega32 will send the data through bluetooth module.
3. & 2 procedure will be done for humidity and temperature sensor again.
4. Bluetooth module then send the Data to Atmega32 and Atmega32 will send the data to the person through a message which will transmit via GSM module.
5. A buzzer can be used by patient for contacting if any emergency occurs.



END