



PARALYSE PERSON MESSAGE CONVEY SYSTEM

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ABSTRACT

The main aim of the project is to implement a low cost reliable system which will help to establish communication between paralytic or disabled patients and a nurse. A patient can easily send messages to the nurse just by pressing the button with the finger tip. The buzzer is located near the desk of nurse patient can alert the nurse in any emergency.

All these idea together focus on the smart system to make the patient self sufficiency. Our project provides a reliable, effective and simple yet important solution to various issues faced by nurses in traditionally communicating with patients.

KEYWORDS

Patient communication, Buzzer, Battery, RF receiver, Push button, RF transmitter Diode, Micro-controller 8051, Display board

INTRODUCTION

Among the large number of advancements done in the medical sector, very few actually focus on helping patients with disabilities to communicate. Although monitoring systems make it easier for doctors to collect and observe a patient's vitals, there aren't many options for actual verbal communication for disabled patient. The main purpose is to replace the conventional approach of patient-nurse communication with modern technologies that provide a much faster and reliable way to do so. In the current scenario, the patient has to be dependent on a family member or mostly a ward boy both of which have to attend to the patient constantly.

Our objective is to make such patients independent to communicate with the nurse by the simple task of pressing the one button i.e a push button located on his finger or any other part of the body that is capable of movement.

This will not only help the patient but also ease out the nurse's job. A buzzer located at the nurse's desk will alert the nurse in case of an emergency. All these ideas together thus focus on building a smart system to make patients self-sufficient, and assist the nurses at the same time.

PERPOSED METHODOLOGY

This device has made conveyance of message possible only by the motion of a body part. The ease of message conveyance is the main advantage of this system. By implementing this system a simple device for paralyzed or disabled people can be achieved without the use of complex form of inputs. For a large area and transmission distance the type of communication used have to be more effective and faster. Our system successfully proves that this system is an excellent approach to be implemented at hospitals for patient-nurse communication.

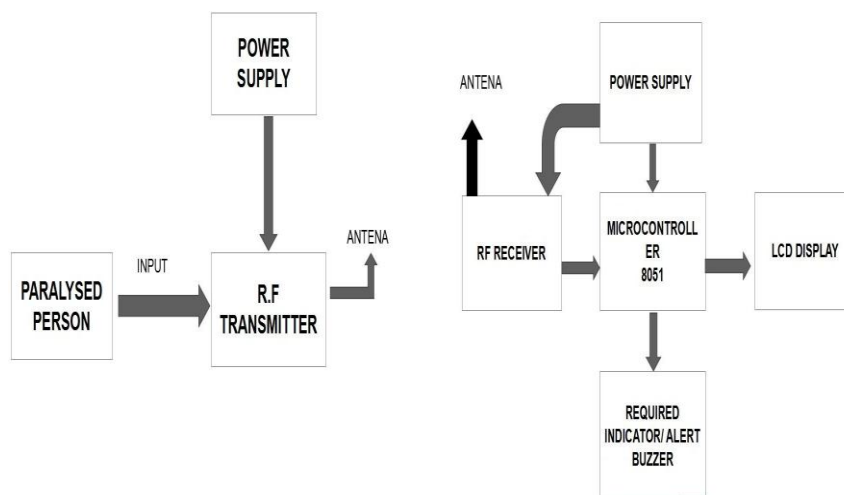
There are two part of the project sending and receiving, the sending part is placed near the patient and other part ie. receiving placed near the nurse. Whenever patient need to convey some message to nurse so he/she can just press one button near to him/her. The message is received by the nurse on the screen and communication between both of them is ease.

Our project is very simple if the patient is fully paralyse only his finger is moving so we make a project to help him, or anyone can get advantage of it according to their need. There are 4 push button place near the patient all the button has different message to convey, when button is press the transmitter sen the message to RF receiver it decode the message and send to the micro-controller 8051 then buzzer will start and the message is display on the LCD screen.

We connect 4 different colour diode also if nurse is not near the screen so she can she the colour of the LED to get the message

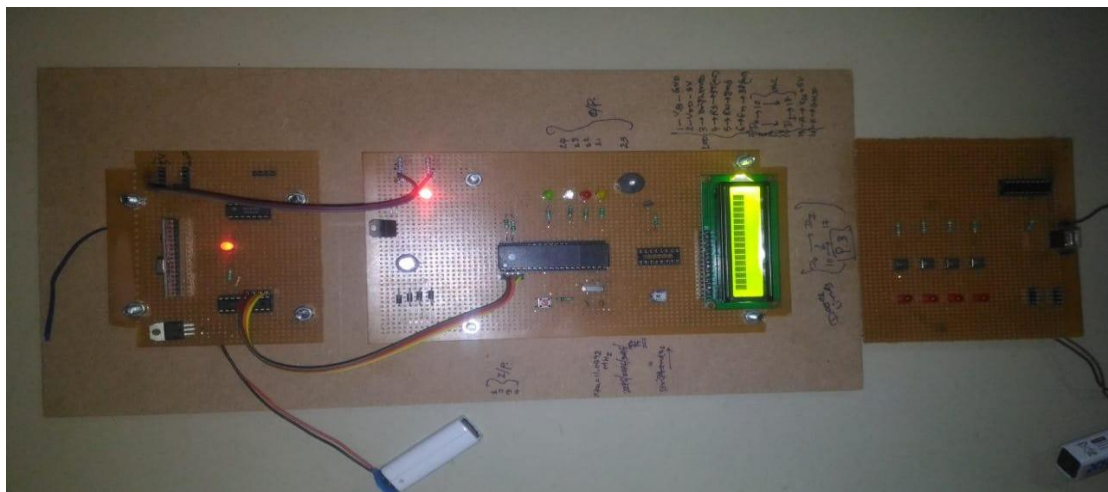
The system need 5v dc supply and also we can connect to ac supply and then convert into dc. Here we used two 9v battery.

BLOCK DIAGRAM



According to the proposed methodology, the following block diagrams were proposed to meet the requirements of the system. The range of this system is 14 -15 foot. We can increase the range according to our need..

RESULT



This device has made conveyance of message possible only by the motion of a body part. Our system successfully proves that this system is an excellent approach to be implemented at hospitals for patient-nurse communication.

FUTURE SCOPE

1. We can increase the range.
2. we can use different sensor according to the need of the patients .
3. we can add as many input as we want.
4. we can set alarm for medicine.

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