Abstract

In hospitals, considering the huge campus, it is very difficult for the doctors to reach every patient for their daily updates and its very time consuming to monitor all the patients on daily
basis. Home care services are growing up in the past years. Contemplating the patient-family pair, it represents a solution to the medical problems of the modern life. Also in critical situations, it is very important to report the live health status of the patient to the doctor and provide immediate medical help to the patient during the critical hour. Statistics reveal that everyday many lives are affected because the patients did not get timely and proper help. This paper shows design and development of a reliable, energy efficient patient monitoring system. It is able to send parameters of patient in real time. It enables the doctors to monitor patient’s health parameters (temperature, heartbeat etc.) in real time. The paper presents the design and implementation of a Remote Patient Monitoring (RPM) system based on wireless technology using a cellular phone, to send an SMS (Short Message Service) to the medical staff. The proposed system combines two commonly used technologies namely, Global System for Mobile (GSM) and ZigBee Technology

References

- Gautam Talukdar, M. A. Ansari , Alok Sarkar, Kumar Samvat, Manoj Kumar, "GSM Based Remote Patient Monitoring System" IEEE CONFERENCE PAPER • DECEMBER 2010
- M. V. M. Figueredo, J. S. Dias, "Mobile Telemedicine System for Home Care and Patient Monitoring" Proceedings of the 26th Annual International Conference of the IEEE EMBS San Francisco, CA, USA • September 1-5, 2004
- Tia Gao, Dan Greenspan, Matt Welsh, Radford R. Juang, and Alex Alm, "Vital Signs Monitoring and Patient Tracking Over a Wireless Network" In Proceedings of the 27th Annual International Conference of the IEEE EMBS, Shanghai, September 2005
- N. M. Z. Hashim, M. S. Sizali, "Wireless Patient Monitoring System" International Journal of Science and Research (IJSR), Volume 2 Issue 8, August 2013 India Online ISSN: 2319-7064
- S. Josephine Selvarani, "ONLINE HEALTH MONITORING SYSTEM USING ZIGBEE" S. Josephine Selvarani / International Journal on Computer Science and Engineering (IJCSE) ISSN : 0975-3397 Vol. 3 No. 4 Apr 2011
- Purnima, Puneet Singh, "ZigBee and GSM Based Patient Health Monitoring System" 2014 International Conference on Electronics and Communication System (ICECS -2014)
- K. Navya, Dr. M. B. R. Murthy, "A ZigBee Based Patient Health Monitoring System"
- ATMEL, 8-bit Atmel Microcontroller with 128Kbytes In-System Programmable Flash, 2467X–AVR–06/11

Index Terms

Computer Science Wireless

Keywords