

## **A LOW COST REMOTE PATIENT MONITORING SYSTEM USING LABVIEW VIRTUAL ENVIRONMENT**

**ROYSTON ROHAN MASCARENHAS AND SANDRA D'SOUZA**

### **Abstract**

Careful and expertise health monitoring is a necessity of a patient. It is found that there is lack of available medical expertise in many areas. Due to this reason, often a patient has to undergo inconvenience in travelling to the hospitals. Remote patient monitoring is very useful in regular home check-ups of patients with certain special medical conditions, specially the elderly or persons who are being treated at home since they are unable to regularly visit a healthcare facility. This technology benefits in reducing the number of home visits by a physician or movement of the sick to the hospitals. There is a need for cost effective, reliable, highly portable remote patient monitoring systems that can replace the traditional remote patient monitoring methods. Our main objective is to develop a low-cost method to continuously monitor & measure patient's vitals like electrocardiogram (ECG) signal, body Temperature remotely etc., via a PC based system. This paper presents our work on the design and development of a PC based remote patient monitoring system which allows the patient to be monitored remotely from any location.

-----  
**Keywords :** data acquisition, data socket, LabVIEW, remote Patient Monitoring, networking.

© <http://www.ascent-journals.com>