BLOOD SUGAR MONITORING USING PERVASIVE COMPUTING TECHNOLOGIES

PROJECT REPORT

Submitted by

J.PRAVEEN KUMAR (96007205042)

R.VIJAYARAJAN (96007205058)

K.SHENBAGARAM (96007205354)

In partial fulfillment for the award of the degree

Of

BACHELOR OF TECHNOLOGY

In

INFORMATION TECHNOLOGY

MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI

ANNA UNIVERSITY: TIRUNELVELI 627 007

MARCH 2011

ANNA UNIVERSITY: TIRUNELVELI 627 007

BONAFIDE CERTIFICATE

Certified that this project report **"BLOOD SUGAR MONITORING USING PERVASIVE COMPUTING TECHNOLOGIES"** is the bonafide work of **J.PRAVEEN KUMAR, R.VIJAYARAJAN, and K.SHENBAGARAM** who carried out the project work under our supervision.

SIGNATURE

Dr. T. REVATHI
HEAD OF THE DEPARTMENT
Information Technology
Mepco Schlenk Engineering College
Sivakasi-626005
Virudhunagar Dt.,
Tamilnadu

SIGNATURE

Dr. T.REVATHI
SUPERVISOR
Head of the Department
Information Technology
Mepco Schlenk Engineering College
Sivakasi-626005
Virudhunagar Dt.,
Tamilnadu

Submitted for the Project Viva-voce held at Mepco Schlenk Engineering College, Sivakasi on …….

INTERNAL EXAMINER **EXTERNAL EXAMINER**

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

First and foremost, we record our whole hearted gratitude to the almighty and our beloved parents and for their blessings in the successful completion of this project.

Our sincere thanks are rendered to our honorable Principal **Dr.S.Balakrishnan B.E., M.S., Ph.D, M.I.E.E, F.I.E.T.E**, for giving us an opportunity to undertake this project in this esteemed institution and extending all the facilities for completion of the project.

We also remember with fond gratitude, the valuable and consistent encouragement given by the Professor and head of the Department of Information Technology, **Dr.T.Revathi M.E., Ph.D.,** for permitting us to choose an area of our choice and an idea of our convenience and interest and guiding and fine tuning us in each and every foot we have taken towards the successful completion of the project.

We hereby acknowledge the efforts of all the staff members, reviewers and Technicians of the Department of Information Technology, whose help was instrumental in the completion of our project by providing us the required software with utmost guidance.

CONTENTS

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

ABSTRACT

The world of medical electronics is shifting fundamentally. Equipment designs have traditionally lasted 20 years, with years of heritage and testing behind each design. We know that the diabetes is a growing and costly problem worldwide. Our goal is to develop a system to measure, record, and perform analysis on the glucose level of diabetics on a homebound basis. The device and corresponding software will be able to measure the blood sugar value of the diabetes patient when it is taken, and wirelessly transmit it to be saved as medical records. This is done by measuring the blood glucose using the device, followed by transmitting the measured data to the homebound computer using RF transceiver and then sending the data to an email address specified by the doctor, and accessing it through software running on the remote computer that is used to hold all the patients' information.