**BLOOD SUGAR MONITORING USING PERVASIVE**

**COMPUTING TECHNOLOGIES**

**PROJECT REPORT**

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***In partial fulfillment for the award of the degree***

***Of***

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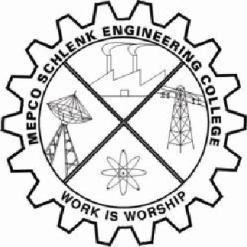
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**BONAFIDE CERTIFICATE**

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**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.