VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM-590018

A REPORT ON PROJECT WORK

EMBEDDED WEB SERVER

(Submitted to Karnataka State Council for Science and Technology, [KSCST] Bangalore)

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION

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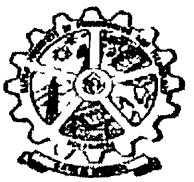

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ABSTRACT

Problem statement: Implementation of an Embedded Web Server based on a microprocessor and an Ethernet LAN controller for Web based Data Acquisition and Control.

The phenomenal growth of the Internet, and its entry into many aspects of daily life, has led to the suggestion that TCP/IP will find its way into the most humble of domestic devices. The integration of the ubiquitous internet with embedded devices brings about a plethora of applications. A typical example being monitoring and control of sensors via a standard internet browser, which can be programmed to automatically generate e-mail alerts on the occurrence of special events. Many applications are in home automation, medical diagnosis, process control, security and surveillance systems, card readers, building controls and robotics, using internet browser from anywhere around the world.

This work addresses in detail the implementation issues of the embedded Web server based on Rabbit processor based Minicore RCM5700 development platform and an Ethernet LAN controller. A HTTP server will be implemented to enable web based data acquisition and control.