

Bharatiya Vidya Bhavan's  
SARDAR PATEL INSTITUTE OF TECHNOLOGY  
Munshi Nagar, Andheri (West),

LIST OF PROJECTS  
Academic Year –2008-09

Sr. No	Names of the student	Title of the Project	Abstract
1	Paranji.S.Darshan Prateek Sharma Aditya Subramaniam Ameya Walvekar	Pluggable Embedded distributed intrusion detection system	An embedded, pluggable Network Intrusion Detection System(NIDS) that can work in real time environment at the entry point of the network to identify the potential attack on network terminals. This technology works by detecting anomalies in TCP/IP headers of incoming packets ,and thus detect a spurious packet. The Pluggable Embedded NIDS (PENDIS) is user friendly and universal in nature. Also the load created on the network will be minimal as compared to the effectiveness of the system in handling spurious packets.
2	Prerna Mittal Swetha Giridhar Sudha Parchuri	EMR Detection & Transmission of Data.	Awareness among population is key to Revolution . This is what project aims at-to empower the citizens with the statistics on the Electromagnetic Radiation they are being subjected to. Mobile communication uses EM field as a means of propagation. And this EMR level has been observed well above acceptable limits. This project aims at developing an application which is not only detects the EMR in the environment but also make amaze records easily decipherable by giving outputs in the units of average expected rise in human body temperature.
3	Siddharth Chaudhary Swapnil Angane Siddharth Sawant Gaurav Shetye	Professor Assistance System using GSM	This project is concerned with the interface of a GSM modem with a 8-bit Philips Microcontroller P89V51RD2 to send SMS to a predetermined location. Operation of GSM modem, circuit techniques and development of embedded software for wireless communications are focus of this project.
4	Heeral U. Bhatia Amruta R. Borse Kashyap K. Jotwani	Wi-Mall- The Future Shops here.	Wi-Mall has been developed with a view to make a shopping a better experience. This system has been developed typically for customer benefit. Wi-mall system makes use of RFid based item

	Vipul V. Thakur		level tagging. The biggest advantage of this system is that it saves the customer time as billing is done while shopping and not at the end as it is practice now .Thus project aims at using advanced technology to the maximum level for benefitting common people.
5	Sneha Satyamoorthy Mrinmayee Surve Aparna Gopalakrishnan	GSM based Remote Access System	This project helps the user to switch ON/OFF the devices through sending an SMS. The availability of electricity is notified to the user through an SMS, by a microcontroller connected t a GSM modem. The user can reply to take necessary action. Use of GSM offers advantages over other technologies such as Bluetooth and Radio frequency communication in terms of non-interference of signals and long range covered by GSM

6	Chintan Thakker Umang Soni Nitin Zodpe	Palm Controlled Cargo Lifter with Camera.	This project aims to make a palm controlled wireless cargo lifter with Camera. It introduces Accelerometer , the world of Motion. The initial Part includes research work done during project period. It also includes the process of PCB etching , use of accelerometer sensors.
7	Parimal Patil Tejas Potdar Gaurav Parikh Vishal Parmar	Fingerprint Recognition System	Security is one of the most important concerns in a day to day life. Fingerprint Recognition System is one such method used to safeguard the private information. It involves a module to scan and compare the images. This module works on different algorithms. This system has many advantages over existing ways of identification like RFID. This system has so far proved its worth in many scenarios which involve granting access and recording attendance.
8	Urmila B. Naik Rucha P. Chavan Pooja K. Chaudhari Sai N. Gadkari	Bluetooth Network Implementation through Hopping.	The project on Bluetooth Network Implementation through aspires to develop a prototype of a blue tooth system constituting a Bluetooth module and a host processor .Both of them run parts of a Bluetooth specification suitable to network formation process. The network formation process i.e. device discovery, routing table information, status assignment is unique that it also include routing process enabling data transfer.

9	Sarawagi K.Aditya Sandeep S. Nair	Optimizing & Customization of Linux distribution using XML	There are so many different computer hardware in the world. The need of one computer hardware is generally different from one another. Linux operating system is highly portable due to its open nature. Porting same Linux system to different hardware will lead memory wastage and inefficiency. The Linux operating system need to be modified for a particular hardware. This project aims to create custom linux distribution which will lead to optimum utilization or good abstraction of the underlying hardware.
10	Shiril A. Tichkule Harish B. Singh Bhavin G. Jain Mir Danish N	Face Recognition using ARM	This project propose the building of an embedded system for access control employing the biometric tool of Face Recognition. A generic face recognition system is basically an image comparison-verification system. This system uses a digital CMOS sensor for capturing the images. Based on the various parameters closest matching group of a predetermined number of images is formed .An indication of a match is given so as to signify that the person seeking entry is authorized to gain further access.
11	Sanuj Basu Samir Shah Prashant Chauhan Niraj Udani	WLAN network planning, design & optimization	This project propose a design and optimization approach that focuses on assuring sufficient data rate capacity with seamless roaming to meet the expected user demand in coverage area while still satisfying signal coverage and interference level requirements. This project is on WLAN planning ,design and optimization focuses on important planning criteria for determining optimum WLAN configuration for the college setup.
12	Nirav vora Saurabh Agarwal Harshit Chitalia Chintan Doshi	Traffic analysis, design, modeling & shaping for Network Applications.	The goal of this project is to devise a traffic shaping scheme which can guarantee performance in the presence of network congestion. By applying proposed traffic shaping scheme, effectiveness of the network can greatly be improved, as it is evident from both our simulated result in network simulator -2 and mathematical proof of concept

13	Vinay Dhabolkar Romit Revankar Rahul Sahasrnaman	GPS tracking and Controlling	This system explores the global positioning system to determine the position of vehicle , person to which it is attached. The designed system is a function which allows companies which rely on
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	Suman Tanwar		transportation of their business to remove or minimize the risk associated with vehicle investment, improving efficiency, productivity and reducing their overall transportation cost.
14	Parag Jain Shailesh Jain Ajinkya Lokare Ritesh Vitekar	Wireless toll System	This project aims to make an automated system based on RFID. This system verifies the details of the user and based on this, it either allows or restricts a user. For specific users, the specific amount is deducted from users' account and the vehicle passes the toll station without interruption. This system design is comparatively faster to operate than our current existing system, which serves as our solution to problems such as fuel wastage, time wastage, money wastage.
15	Kashfat Khan Gaurav sawant Pratik Chaphekar Samit Rane	Surveillance over Security System	The purpose of this project is to implement the surveillance system by using a microcontroller and an embedded designing environment. This system will monitor the security system attempting to make it foolproof. This project fully utilizes microcontroller future and embedded technology concepts to build "Surveillance over Security System"
16	Chetan Virkar Mahesh Jadhav	Wireless ECG Monitoring System	This project gives new possibilities for monitoring of various ECG parameters and gives the patients the freedom at home and still be under continuous monitoring and to thereby improve the quality of patient care. Hardware system is developed for capturing ECG signals, its amplification and filtering with proper cutoff frequencies.
17	Gayatri Bhagwat	Remote Access using Telephone Line	This project proposes a remote access system which does not require any radiation and has no limitation of range. It can be used from meters to thousands of kilometers using a telephone line. Here, the telephone line is being used as a media which serves the main part of the system. Remote devices can be accessed using a cell phone and another phone as a local access point using Dual tone multifrequency technology of telephone sets.
18	Parag Dalvi Ghansham Gangurde Shardul Navare Gautam Shreemali	UART using VHDL	This project concerns the design of a synthesizable VHDL model of a Universal Asynchronous Transmitter and Receiver (UART) chip. Synthesize this design using the Xilinx FPGA as target to see the gate level implementation of the designed chip. The designed UART model is modeled in Modelsim. It is also tested using a test bench.

19	Sachin S. Nimane Nishant G. Gore Avinash B. Kamble Abhijeet H. Gudekar	i-button based attendance record	This project propose use of i-button for attendance recording purpose. It is a stainless steel which contains a 64-bit ID of a person. It has various advantages over attendance record system such as RFID, Smart Card System
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