



## Abhay Pratap Singh

### Projects:

- Design of a mobile robotic vehicle complete with basic stamp microcontroller for collision detection
- Callback mechanism and enhanced security on PPP for CAIR-Bangalore
- Audio driver development for QNX RTOS
- Network browser for Linux
- Linux SwapFs driver for Windows NT/2000/XP

Email: abhay\_@msn.com

## Abhinav Jalan

### Projects:

- System for distributing over an unreliable network a 'sequential program' with inbuilt fault tolerance and load balancing as an alternative to supercomputers
- Preparation of 'guidelines for drafting a software patent in India' and filing an international patent for the above
- Devnagari optical character recognition system
- Online course authoring and deployment system for Aptech
- Intelligent search engine

Email: abhinav\_jalan@yahoo.com





## Abhishek Mitra

### Projects:

- Wireless digital modem @ 950MHz and accompanying control software
- Voice-based biometric recognition system in MATLAB
- RISC CPU design and implementation on a Xilinx SPARTAN II FPGA
- PID controller for DC motor on an FPGA using VHDL
- Infra-red communication device for a PC to PC link

Email: amitra@yahoo.com

## Aditya Pal

### Projects:

- Symbolic computation (symbolic differentiator, integrator, simplifier in SCHEME)
- Application for remote administration over a WAN
- Text to speech/voice in Hindi using MSSDK speech API
- Multi-language transliteration software
- Offline P2P file sharing system using mobile agents

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## Aditya Upreti

### Projects:

- Online tutorial system for the Institute using PHP, Postgres
- Knowledge repository using LDAP and PHP
- MIS for reliance polymer division
- Student information system
- Voice-based broadcast radio TV channel over LAN with live broadcast facility

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## Ajay Banwari

### Projects:

- Software-based router with additional functionality of proxy server and firewall, in UNIX-C
- Design and implementation of data mining toolbox with interfaces to different types of databases in MFC
- Ambient noise cancellation in a personal music equipment
- Library information system for the IIT-A Intranet using JAVA servlet and interservlet communication incorporating JDBC and student information system in Oracle 8i
- Design, development and coding of project profile management system, quality management system and implementation of a web browser in Java

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## Akhil Chugh

### Projects:

- Collaborative web-based search engine
- Developed generalised software component for video conferencing based on RTP architecture
- Comprehensive biometric identification and security system (hand geometry and voice)
- Design and Implementation of network services (DNS, NIS, NFS, Mail) for IIT Intranet
- Software defects tracking system for Escosoft Technologies, Delhi

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## Akhilesh Sharma

### Projects:

- Distributed online exam system
- Library management system for a corporate library
- Knowledge repository using LDAP and PHP
- Broadcast radio/TV channel over LAN with live broadcast facility
- Student Information system using Oracle 8i

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## Alekh Tiwari

### Projects:

- Program for differentiation, partial Integration and simplification of any symbolic expression in LISP
- Real-time data communication between a PC and any DTE (asynchronous mode)
- Circuit and PCB design of a timer and a cell recharger
- A peer-to-peer file sharing system using intelligent mobile agents
- Multi-language transliteration software

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## Amber Kumar Gupta

### Projects:

- Devnagri character recognition system
- Function and equation plotter (a different approach)
- Number plate recognition system in vehicles
- Designed simulation test-bed for various networking protocols and encapsulated function library for protocol development
- Firewall, network security and monitoring, SAMBA (Resource sharing over LAN and routed network)

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## Amit Tripathi

### Projects:

- Biomolecular modelling and protein analysis toolkit
- Designed simulation test-bed for various networking protocols and encapsulated function library for protocol development
- Natural language interface for database access
- Firewall, network security and monitoring, SAMBA (resource sharing over LAN and routed network)
- Personal and global health record system for Satyam Computers, Hyderabad

Email: amit\_lit@yahoo.com

## Arindam Choudhary

### Projects:

- Network device driver for Linux and protocol simulation
- Minimal operating system bootable from floppy disks
- Comprehensive network information processing system
- Proxy server
- Object recognition and tracking system

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## Anurag Srivastava

### Projects:

- Devnagri character recognition system
- Designed simulation test-bed for various networking protocols and encapsulated function library for protocol development
- A mathematical model for the online examination
- Web-based education software using Php and Postgres
- Development of real-time number plate recognition on automobile cars using knowledge representation techniques and multimedia

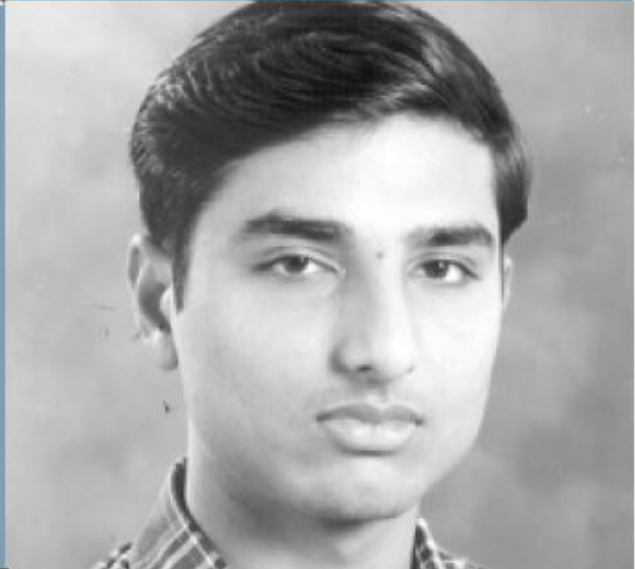
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## Ashish Gupta

### Projects:

- Cooperating mobile agents for mapping networks
- Symbolic differentiation using SCHEME
- Instant messenger in MFC
- Voice-based biometric speaker identification system
- Student Information system using Oracle 8i

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## Aurvind Lama

### Projects:

- Digital sound processing
- Chat application and white board
- Online bearing system for Aptech (virtual classroom)
- Software robot to solve AI problems (passer and code generation)
- Face recognition
- Summarisation of text

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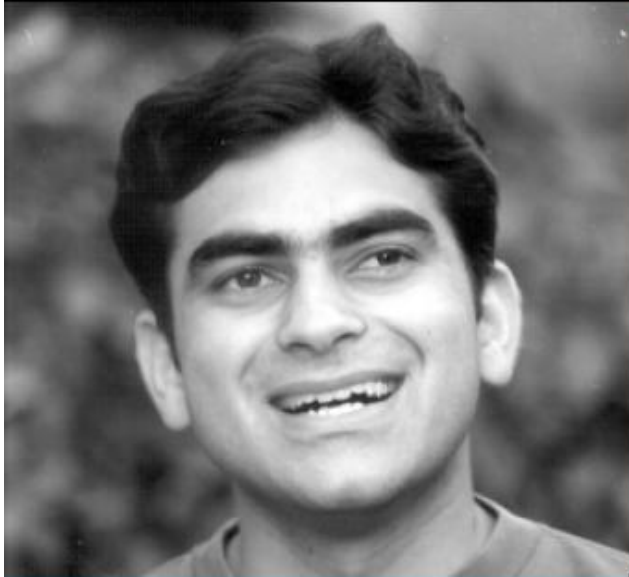
## Balachandran C.

### Projects:

- Framework for deploying, transporting and assembling software components over a network using JINI
- White board with image transfer and manipulation support for ONCONET
- Distributed genetic algorithm implementation using MPI
- Frequency domain analysis of biomolecular sequences
- Hindi character recognition

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## Chintan Khanna

### Projects:

- Remote booting of a diskless client using BOOTP and TFTP protocols, a micro kernel and a BootLoader
- Multithreaded chat application (Java RMI)
- Text to speech synthesis (Hindi to speech)
- Devanagiri character recognition system
- Number plate recognition system

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## Deepak Tomar

### Projects:

- Online tutorial system
- Knowledge repository (with LDAP and PHP)
- Student information system
- Building neural network for image enhancement and edge detection
- Broadcast radio/TV channel over LAN with live broadcast facility

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## Dhruv Garg

### Projects:

- HTTP-proxy server with application-level authentication and authorisation
- Components deployment, transport and assembly framework using JINI
- Distributed genetic algorithm using MPI
- Offline P2P file sharing system using mobile agents
- Multi-language transliteration software

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## Harpreet S. Bagga

### Projects:

- A tool suite for DNA analysis (sequence, entropy, phylogenetic analysis)
- Developed generalised software component for video conferencing, based on RTP architecture
- Tool for visualisation and knowledge discovery in relational databases
- Design and implementation of network services (DNS, NIS, NFS, Mail) for the IIT-A Intranet
- A new server side architecture for an online railway enquiry system for the Indian Railways

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## Kumar Kartikeya

### Projects:

- Remote booting of a diskless client using BOOTP and TFTP protocols, a micro kernel and a BootLoader
- Firewall, network security and monitoring, SAMBA (resource sharing over LAN and routed network)
- Voice-based biometric speaker identification system
- Automated voice call centre and answering machine
- Benchmark suite in C++ for measuring the performance of computer components

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## Ksh. Suresh Singh

### Projects:

- Image filtering techniques in spatial domain and frequency domain
- Online result maintenance and grade analysis
- Student Information system
- NLP: language to language conversion
- Communication between a PC and any DTE through serial port using 8255 USART

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## Lenjalun Haolai

### Projects:

- Student information system using Oracle 8i
- Analog signal transmission through optical fibre
- Online grading system using PHP
- Development of AI for the game CHECKERS
- Image filtering techniques in spatial domain and frequency domain

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## Manindra Mohan

### Projects:

- Digital watermarking of images, audio and video
- Preparation of 'guidelines for drafting a software patent in India' and filing an international patent for the above
- Distributed online examination system
- Image compression using neural network and fractals
- Automated voice call centre and answering machine at IIT

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## Nitin Agarwal

### Projects:

- Compiler for TIGER language in Java
- Online course and evaluation development and deployment system
- Firewall, network security and monitoring for the IIIT-A LAN and Samba server setup
- Distributed sound server
- Disparity analysis of images

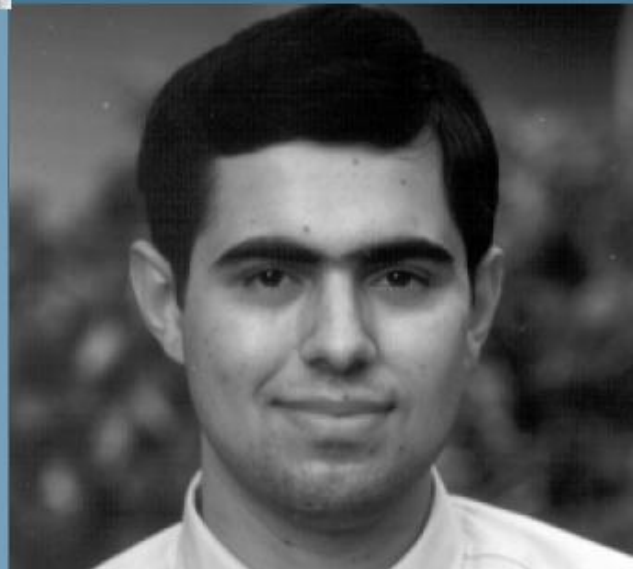
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## Nitin Arora

### Projects:

- Compiler for TIGER language in Java
- Personal and global health record system for Satyam Computers, Hyderabad
- Firewall, network security and monitoring for the IIIT-A LAN and Samba server setup
- Distributed file sharing and searching system
- Image analysis, manipulation and compression

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## Prakash Kr. Sethia

### Projects:

- Hospital Information system with image manipulation using Oracle8i and Developer2000
- Database module for gun-recognition for CSIO
- Browser-based Internet relay chat using Php hypertext preprocessor
- ASCII, ISCII, UNICODE cross compiler for data transfer
- Design of online examination system using Rational Rose

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## Prateem Mandal

### Projects:

- Comprehensive network information processing system
- Minimal operating system bootable from floppy disk
- Network device driver on linux platform
- Object Recognition and tracking system
- Proxy server

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## Pratyush Kumar

### Projects:

- Inverse kinematic solution of a robotic arm manipulator with five degree of freedom and its master slave control mechanism
- Collaborative web-based search engine
- Microcontroller-based autonomous robot for Maze navigation and collision detection using IR sensors
- Biometric Identification and security system (Hand geometry and voice)
- Callback mechanism and enhanced security on PPP for CAIR-Bangalore

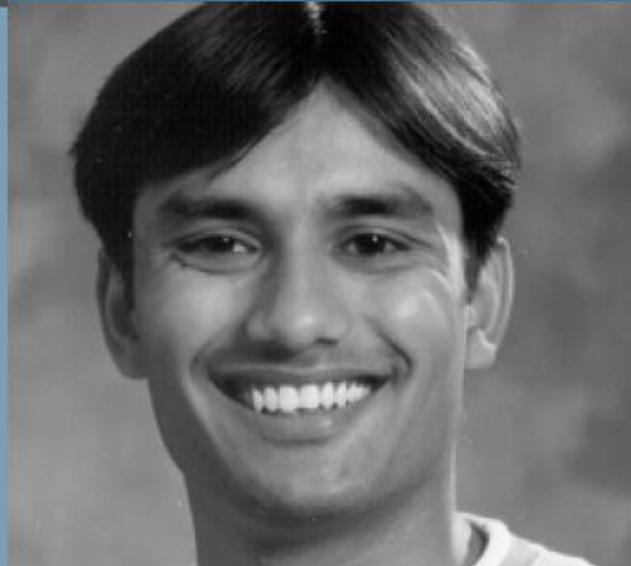
Email: [guptapratyush@yahoo.com](mailto:guptapratyush@yahoo.com)

## Pravi Tripathi

### Projects:

- Biomolecular modelling and protein analysis toolkit
- Designed simulation test-bed for various networking protocols and encapsulated function library for protocol development
- Natural language Interface for database access
- Architectural walkthrough of IIT-A new campus (virtual reality simulation)
- Implementation of DHCP, DNS, RAS and Intranet services management at HCL Infosystems, Mumbai

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## Puneet Bagoria

### Projects:

- Online examination system
- Cyber cafe billing software
- Cooperating mobile agents for network mapping
- Voice-based biometric speaker Identification system
- Intelligent search engine

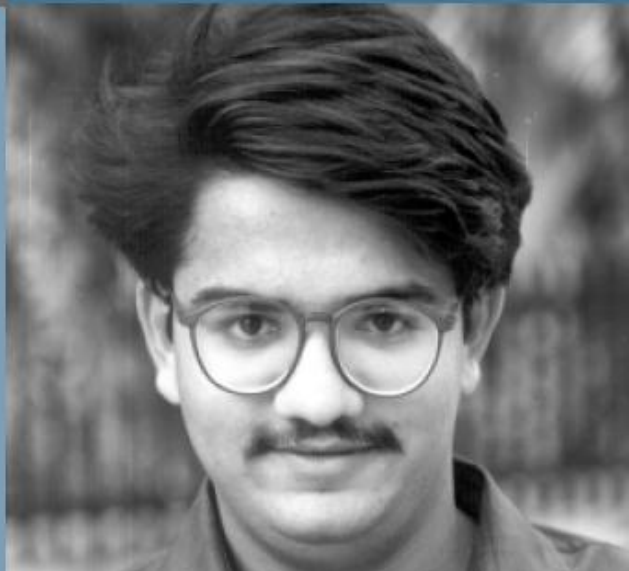
Email: bagoria\_puneet@yahoo.com

## Raghavendra G. N.

### Projects:

- Components deployment, transport and assembly framework using JINI
- Image manipulator/communicator tool
- Distributed genetic algorithm implementation using MPI
- Image compression using neural networks
- Frequency domain analysis of genetic sequences

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## Raveesh Meena

### Projects:

- Architectural walkthrough of IIT-A campus (virtual reality simulation)
- Online result management and grading analysis system using Php and MySQL database
- Frequency domain analysis of genetic sequences
- Natural language processing
- A computer-based calibration of pyrometric data

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## Retesh Chadha

### Projects:

- System for distributing over an unreliable network a 'sequential program' with inbuilt fault tolerance and load balancing as an alternative to supercomputers
- Preparation of 'guidelines for drafting a software patent in India' and filing an international patent for the above
- Biometric Identification and security system (hand geometry and voice)
- Collaborative web-based search engine
- A new server side architecture for an online railway enquiry system for the Indian Railways

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## Rishi Raj Singh

### Projects:

- Automatic answering machine with voice-mail capability using vgetty in Linux
- HTTP server implementation using Java servlets
- Personal and global health record system for Satyam Computers Ltd
- Image compression and noise removal
- Function approximation and time series prediction using artificial neural networks

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## Sampan Arora

### Projects:

- Distributed online examination system
- Audio-video conferencing using Java media framework
- Voice-based biometric speaker identification system
- Computer-based analysis of food grain quality
- Browser-based Internet relay chat using Php hypertext preprocessor

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## Saurabh Bisht

### Projects:

- Adaptive examination system
- Designed simulation test-bed for various networking protocol and encapsulated function library for protocol development
- Effective load distribution system over a network
- Voice recognition
- Data mining tool

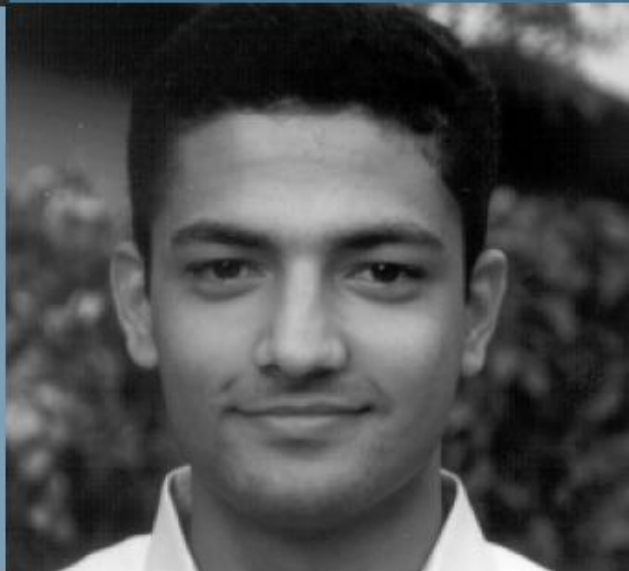
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## Sheetendu M. Mani

### Projects:

- Compiler for TIGER language in Java
- Personal and global health record system for Satyam Computers, Hyderabad
- Online library information and management system using Java servlets and JDBC
- Distributed file sharing and searching system
- Image analysis, manipulation and compression

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## Siddharth Banerji

### Projects:

- Architectural walkthrough of the IIT-A campus (virtual reality simulation)
- Inverse kinematic solution of a robotic arm manipulator with five degree of freedom and master-slave control mechanism
- Commercial SNMP manager for HFCL, Gurgaon
- ASCII, ISCII, UNICODE cross compiler for data transfer
- Function approximation using neural networks

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## Subhek Garg

### Projects:

- 32-bit microprocessor implementation using VHDL and FPGAs with pipelining and floating point
- Infrared communication between computers
- Designed electronic university campus system using Rational Rose
- Network analysis and route monitoring utility
- PID feedback-based stepper motor control using FPGA and VHDL

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## Sushant Rabra

### Projects:

- Microcontroller-based autonomous robot for Maze navigation and collision detection using IR sensors
- Developed generalised software component for video conferencing based on RTP architecture
- Biometric Identification and security system (hand geometry and voice)
- Collaborative web-based search engine
- Callback mechanism and enhanced security on PPP for CAIR-Bangalore

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## Soumik Biswas

### Projects:

- Neural network-based implementation of supervised learning algorithms
- Commercial SNMP manager
- Student Information system
- Mobile Agents to map network topology (using CORBA)
- Voice-based biometric speaker Identification system

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## Trevor Miranda

### Projects:

- 3-D rendering of terrain in real time (Windows application using OpenGL)
- Digital watermarking of images, audio and video
- Online learning system (developed for Aptech)
- Frequency domain analysis of biomolecular sequences
- Digital steganography

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## Tushant Nayyar

### Projects:

- Library information and online issuing system for Intranet using Java servlets and JDBC
- Online learning system for Aptech (Virtual Classroom)
- Software-based router with firewall capabilities
- Feedback-based PID stepper motor control using FPGA and VHDL
- Data mining tool

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## Varun Jaiswal

### Projects:

- Chat application (In Java using RMI)
- Cyber cafe billing software
- Speech recognition
- Parallel processing using Linux clustering
- Digital signal processing

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## Vibhu

### Projects:

- Design and implementation of data mining toolbox with interfaces to different databases
- Servlet and Interservlet communication
- Automatic answering machine
- Developed a module for sine vibration controller in DSP
- Student information system using Oracle 8i

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## Vikas Ranjan

### Projects:

- Distributed computing by implementing MOSIX in Linux clustering
- HTTP server Implementation using Interservlet communication
- Automatic answering machine with voice-mail capability using vgetty in Linux
- Voice-based biometric speaker identification system
- Computer-based analysis of food grain quality at CSIO

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