

PRATIK HETAMSARIA

Undergraduate student

The LN Mittal Institute of Information Technology, Jaipur, Rajasthan, India

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Objective

To be a part of a research project under an eminent professor in an internationally reputed university which provides me with immense learning opportunities in the field of Communications and Computer Engineering

Education

Year	Qualification	Institute/School	CGPA / %	Rank
2004-Present	B.Tech(Communications and Computer Engineering	The LN Mittal Institute of Information Technology,Jaipur	9.13	1
2004	Class XII –CBSE	Delhi Public School,Ranchi,Jharkhand	88.4%	-
2002	Class X – CBSE	Delhi Public School,Ranchi,Jharkhand	84.4%	-

Summer Internship

Worked as a summer intern in the Mobile Communications Lab, Department of Electrical Engineering, **IIT, Kanpur** under the guidance of **Dr. A.K. Chaturvedi (Senior Member,IEEE)**. I successfully completed my project: “Finite Rate of Convergence in Power Control with Outage Constraints and Multiuser Detection”.

Research Interests

CDMA systems,Networking, Mobile and Wireless Communications

Courses Undertaken

Communications

- Analog Communication

- Digital Communication
- Digital Signal Processing
- Digital Image Processing
- Signals & Systems
- Mobile Communications (To be completed by next semester)
- Wireless Transceiver Design (To be completed by next semester)

Computer

- C, C++, Java
- Structured Computer Organization
- Data Structure & Algorithms
- Computer Graphics
- Computer Networking
- Database Management
- Compiler Design (To be completed by next semester)

Other Courses

- Semiconductor Physics & Devices
- Electrical Machines
- Digital Electronics
- 8085 Microprocessor
- Analog Devices

Computer Skills

Programming- Java, C, C++, HTML, PHP, MySQL, JavaScript, Socket Programming

Environments- Windows XP/NT/2000/98

Software Skills- NCTUNS, Matlab, Verilog, Tk Gate

Major Projects Done

- Designing and Implementation of Assembler and Emulator for Intel 8085 Microprocessor analyzing its performance results using C++ and Java
- Analysis and implementation of various modulation and demodulation techniques of PCM, ASK, FSK, QPSK, DM systems in Digital Communication Laboratory
- Development of Online Hospital Management System which involved a 3 tier architecture using Apache Tomcat and MySQL as DBMS Project.
- Software implementation of AI Based “Othello” as Data Structures and Algorithms Lab Project using Java.

- Design of DC Regulated Power Supply and generation of basic waveforms as a Lab course in Analog Devices
 - Analysis and implementation of various modulation and demodulation techniques on AM, FM, DSB-SC systems in Analog Communication Laboratory.
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Academic Achievements

- Cleared the ZIO-04 and appeared for Indian National Olympiad in Informatics-04
 - Got certificate from CBSE for exceptional performance in Chemistry, XII Boards,04
 - Presently, holding Departmental Rank 1 in my Institute from past 4 semesters.
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Extra Curricular Activities

- Was the Chief Coordinator for ViVaCity-06 (Cultural and Technical Fest Of LNMIIT, Jaipur) responsible for the entire management and overlooking of the
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About Myself

At this point in time, the urge to succeed in whatever I do keeps me focused and dedicated in my work. There is a great desire to contribute something to the present technological advancements by the knowledge I have gained in the past few years.