

**Pratik Kahnani**  
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## Objective

To obtain challenging and creative internship for the period of May 2008 to July 2008 to gain research experience and exercise my analytical and technical skills.

## Education Qualifications

Year	Exam/Degree	Institute/School	Performance
2005-till date	Bachelor of Technology	IIT, Kanpur	<b>CPI= 7.2/10</b> (after 5 semesters)
2005	IIT JEE		<b>103(99.99 Percentile)</b>
2005	Class 12 (CBSE)	St. John Sr. Sec. School, Kota	81.4%
2003	Class 10 (ICSE)	North Point School, Muzaffarpur	86%

## Interest Areas

- Computer Architecture
- Computer Networks

## Academic Projects

- **Implementing SDLX processor on FPGA board:** This project involved designing of SDLX processor on Spartan-3 Starter Kit Board using Verilog by designing ALU, register files including program counter and then implementing instructions. This project was done as a part of the Computer Organization course under the guidance of **Prof. Ajay Jain**
- **FTP Client :** Implemented FTP Client using Socket Programming. It connects to a FTP server, checks for authentication and allows you to download the files with few other extra features. This project was done as a part of the Computer Network course under the guidance of **Prof. Dheeraj Sanghi**.
- **Extending Nachos:** This project involved extending the basic features of nachos by adding some new system calls like fork, read, write etc then implementing multitasking, scheduling of threads implementing virtual memory, paging, handling page faults. It was done as a part of Operating Systems course under the guidance of **Prof. Rajat Moona**.
- **Mechanical Engineering:** In mechanical engineering lab we made a wheel chair model with several new additional features and **won 3<sup>rd</sup> prize** among 45 other projects.
- **Java Project:** I did a project in Java to predict structure, 3 dimensional geometry and other Attributes like hybridization, type of bonds etc of a simple compound. It was done under guidance of **Prof. S K Aggarwal**.

## Technical Skills

- **Programming Languages:** C, Java, Verilog, Assembly Language
- **Tools:** Matlab, Polymath, Adobe Photoshop, MS Office, Corel, Auto CAD
- **Platforms:** Windows 9x/Me/NT/XP, Linux
- **Other Languages:** Latex, HTML, LEX, YACC, Shell Programming, Awk

## Relevant Courses

### **Basic Sciences:**

Real Analysis and Calculus  
Complex Analysis and Linear Algebra  
Ordinary and Partial Differential Equations

### **Humanities and Social Sciences:**

Introductory Sociology  
Introductory Indian Philosophy  
Communication Skills

### **Other Courses:**

Introduction to electronic

## (\*) Courses doing this semester

### **Computer Science:**

Fundamentals of Computing (Java)  
Data Structure & Algorithm  
Computer Organization  
Discrete Mathematics  
Operating System  
Computer Networks  
Programming Tools and Techniques  
Compiler Design\*  
Database System\*  
Algorithm II\*

## Academic Achievements

- Ranked among the top **0.01%** of all students appearing for IIT JEE 2005 examination
- **3<sup>rd</sup>** best project in manufacturing processes course.

## Extra Curricular Activities

- **Senior Marketing Executive**, Megabucks 2008, (Annual Business and Entrepreneurship Festival, IIT Kanpur)
- Have taken part in various **quizzes**, and I am the part of IIT Kanpur quiz club.
- Have taken part in workshops organized by **Brics Club** IIT Kanpur and made a '**Biped**' with Lego kits.
- Participated in Electric Circuit Design Competition (ECDC) in Techkriti 2006.
- Participated in Robogames in Techkriti 2007
- A **short film** made by my group was selected in the **top 10** self produced movie in **Umang 2006** the Annual Film Festival of IIT Kanpur.
- **Assistant - Coordinator**, Show Management Antaragni'06 (Annual Cultural Festival, IIT Kanpur).
- **Secretary** of School Bag of Techkriti'06 (Annual Science and Technological Festival of IIT Kanpur).