

# Kundan Kumar

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## Work Experience

1. June 2009 - Present : Nvidia Graphics Pvt. Ltd.(Bangalore), **ASIC Design Engineer**
  - Job Responsibilities – 1) Architecture Validation  
2) Verification of Media and Communication Processor (MCP) chipsets
2. May 2008 - July 2008 : Mentor Graphics(Noida), **Summer Intern**
  - Developed a method for static determination of the races in Verilog designs
  - Developed various methods of optimization and successfully implemented it on different designs
  - The work was pivotal in the successful completion of two projects taken by the company.
3. May 2007 - July 2007 : Bhabha Atomic Research Center(Mumbai), **Summer Intern**
  - Designed an autonomous Surveillance System to keep track of any changes in the plant
  - Designed a system to scan a closed area and generate a map of the area with all objects shown
  - The two systems were designed to be implemented in the plant to detect malfunctioning.

## Education

- Bachelor of Technology (Hons), Electronics and Electrical Communication Engineering (2009)  
Indian Institute of Technology, Kharagpur  
*CGPA - 8.88/10, Ranked 35 in the Institute (out of 750)*
- Intermediate Science, 12th level (2002)  
Aggregate percentage - 63.66%, *College Rank-1*
- Matriculation, 10th level (2002)  
Aggregate percentage – 69.86%

## Academic achievements

- **1st Position**, HP Innovate 2008. Awarded 3-day visit and interaction with researchers at **Hewlett Packard Labs, Palo Alto, USA**
- Letter of appreciation from **Director, IIT Kharagpur** for performance in HP Innovate 2008
- Ranked amongst **top 0.2%** of students appearing in IIT JEE 2005 ( **AIR 398** / 0.2 million)
- NEC (National Educational Council) scholar with **state rank 3**
- Ranked amongst **top 0.1%** of students appearing in CEE (Delhi Univ.) 2005 (**AIR 73** / 0.1 million)
- School Topper for 7 continuous years

## Skills

- **Programming Languages** : C, Perl, Visual Basic, Assembly level
- **Design Languages** : Verilog, VHDL
- **Software Packages**: Xilinx ISE, PSPICE, MODELSIM, MATLAB, AutoCAD, Autodesk Inventor
- **Operating Systems**: Windows, Linux
- **Languages Known** : English, German, Hindi

## Conference/Publications

- *International Conference on Advances in Recent Technologies in Communication and Computing (ARTcom 2009), October 2009, Kottayam ,Kerala, India*  
A Comparative Performance Evaluation of Network-on-Chip Architectures under Self-Similar-Traffic  
Santanu Kundu, Kanchan Manna, Kundan Kumar, Riteish Parikh and Santanu Chattopadhyay
- *EmTech (Emerging Technologies Conference, MIT's Technology Review & Cybermedia) India 2009, Delhi, India*  
New Face of Image Resizing : Seam Carving and variations  
Kundan Kumar, Debducta Bhattacharya and Bibhu Prasasd Mishra
- *2008 IEEE conference on Soft Computing in Industrial Applications (June 2008), Muroran(Japan)*  
Fuzzy Logic based Content Protection for Image Resizing by Seam carving  
Sushil Subramanian, kundan Kumar, Bibhu Prasad Mishra, Animesh Banerjee and Debducta Bhattacharya

## Positions of Responsibility

Positions	Key Achievements
<b>Head</b> (2008), <b>Sub Head</b> (2007), <b>Volunteer</b> (2005), Guest Reception Team, Spring Fest, IIT Kharagpur	Led a team of 16 people which was responsible for the management of all the activities related to the guests and celebrities attending the cultural fest.
<b>Sub Coordinator</b> , Event Organization Team, Kshitij 2007, IIT Kharagpur	Coordinated the event EUREKA (a paper presentation competition of the techno-management fest). The event was attended by more than 100 teams from various colleges.
<b>Captain</b> , Hardware Modeling, Patel Hall (2008-2009), IIT Kharagpur	Led a team of 10 people to make a hardware model for the annual Inter Hall Hardware Modeling competition

## Extra-Curricular Achievements

- **Bronze** in the Inter Hall English Dramatics (2008) and Hindi Dramatics (2007 IIT Kharagpur
- **Best First Year Machine** prize in ROBOTIX, Kshitij 2006, IIT Kharagpur
- Member of **NSS** (National Service Scheme) program, IIT Kharagpur
- Organized the Inter Hall Dramatics events as a member of the **Dramatics Organizing Team** (2007-08), Patel Hall. Member of Hindi Technology Dramatics Society (2005-06), IIT Kharagpur
- Member of **KRAIG** (Kharagpur Robotics and Artificial Intelligence Group), 2005-07
- Sports of interest: Athletics, Badminton. Member of the **Inter Hall Athletics team**(2006-07), IIT Kharagpur