



EDUCATION

Program	Institution	%/CGPA	Completion
BTech. (Hons.) Electrical Engineering	Indian Institute of Technology Kharagpur	9.27	2011
XII (ISC)	ST. Francis' College, Lucknow	94.75%	2006
X (ICSE)	ST. Francis' College, Lucknow	92%	2004

ACADEMIC ACHIEVEMENTS

- **Department rank one** (out of 80 students) after the end of six semesters.
- **Awarded J.B.Ghosh Memorial Scholarship** for academic excellence in undergraduate education.
- **Awarded Bhartiya Cutler Hammer Prize** for highest CGPA after 6 semesters in Electrical Engineering.
- Secured a State Rank of **51** in All India Engineering Entrance Examination (CBSE).
- Secured a Rank of **18** in the Uttar Pradesh Technical University State Entrance Exam.
- Scored 100 percent marks in Mathematics in the Indian School Certificate Examination.
- Awarded the Academic Honor Award for being the school topper from class VIII to class XII.

ACADEMIC PROJECTS

- **Digital Restoration of old video films** (BTech Project)
 - Automatic detection and removal of blotches, line defects and intensity flickers in old video films for archival.
 - Using video processing (optical flow) and image processing.
- Digital Signal Processing for Relay Design (Feb 2009-March 2010)
 - Acquisition and processing of power signal to be fed to the relay system.
 - Processing on the NI-Compact Rio Processor and Labview as the software.
- Lane detection and lane departure warning system (July-Nov 2009)
 - **System developed to warn the driver when vehicle departs from its lane.**
 - Implemented in Matlab using **image processing and Fuzzy logic.**

SUMMER INTERNSHIPS

- MITCAS Globalink Internship at **University of Toronto, Canada.** (Multimedia Lab) (May-July 2010)
 - Image Similarity Matching based on **MPEG-7** Visual descriptors
 - MATLAB interface for matching similar images using **Fuzzy Logic** and MPEG-7 content descriptors.
 - The interface will be used for **Automatic Image Tagging system** which is in high demand for websites such as **facebook and flickr**. Algorithm can be extended to have **image search and retrieval system.**
- Summer Internship: Bharat Heavy Electricals Limited , Jagdishpur (May-July 2009)
 - Studied the Manufacturing and Testing of Insulators and Ceralins.
 - **Proposed the usage of battery back-ups** as an intermediate between switching from power grid to Diesel Generators. I also worked on **optimization of fuel consumption** for diesel generators.

RELEVANT COURSES

- Industrial Economics
- Estimation of Signals and Systems
- Fuzzy Logic & Neural Networks
- Machine Learning
- Probability and Stochastic Processes
- Graph Theory and Algorithms

POSITIONS OF RESPONSIBILITY

- Member of the Departmental Academic Advisory Committee of my batch. (2009-2011)
 - **A course was added in the curriculum** based on the suggestions of student members from third year.
- Member of the organizing team of 'Crossroads', the annual Inter Collegiate Festival of my school. (2005)
 - For the first time, some of the popular shows were shifted to city auditorium.
 - We generated a revenue of Rs. 86,000 from sponsorships and the sale of tickets for the popular events in the fest.
- Held the post of House Captain in class 11th and College Prefect in class 12th (2005-2006)

EXTRA-CURRICULAR ACTIVITIES

- Member of the Inter Hall team for Hardware Design. I am involved in the microprocessor coding.
- I was a part of the Rangoli team which won Gold medal in the Inter Hall Rangoli competition 2009.