Ashish Tiwari

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Education

Degree / Certificate	Institute / School	CGPA / %
Dual Degree (B.Tech. + M.Tech.)	IIT Kharagpur	7.64/10
Class XII , CBSE Board	St. John Sr. Sec. School Kota	74.4%
Class X , CBSE Board	Sainik School Rewa, Madhya Pradesh	83.8%

Scholastic achievements

- **All India Rank 773** out of 0.3 million students in **IIT-JEE** 2006
- Amongst **top 0.5%** students of India in Engineering entrance exam of **AIEEE ,** WB-JEE & VITEEE ,2006
- Awarded **MCM** scholarships by IIT Kharagpur , 2006-09
- **Ranked 5 in State in NTSE** – Phase-1 scholarship exam conductive by NCERT, 2002
- Awarded Merit Scholarship by Ministry of Defence at Sainik School Rewa **,** 1997-2002
- **Ranked 2** in Madhya Pradesh out of 14000 in Sainik School Rewa entrance test conducted by Ministry of Defence in**,** 1997

Key projects

1.	B.Tech. Project : Detection of **"Sleep Apnea"** Health Disorder • Developed a novel tecqnique to monitor respiratory motion using optical sensor and **made a device** based on it, which **reduced the cost** to great extent • Increased the efficiency of data acquisition by introducing two visual inputs • Analyzed respiratory properties with the help of visual data using **image processing techniques** • Visual data and optical sensor data matched and validated the results Guide : Dr S. Mukhopadhyay , E&ECE Dept , IIT Kharagpur
2.	M.Tech. Project : **Green Communication ,Vodafone Sponsored** Project routed at Telecom-Center Of Excellence • Energy Optimization in Cellular Access Networks • Energy Efficient Routing in Wireless Networks • Offered **Fellowship** for the Project by Vodafone Research Lab ,IIT-kharagpur Guide : Prof. Rajarshi Roy, E&ECE Dept , IIT Kharagpur

Summer Internships

1.	Satish Dhawan Space Centre **(Indian Space Research Organization) , Shri Hari Kota** May to July 2009 Title: Real Time Data Processing of Launching Vehicle flight data for accurate tracking of Vehicle • Analysed test-balloons, C-9,C-10,**Chandrayan-1** flights data using **statistical tecqniques** • Process and Measurement Noise **Modelling** using above results • Designed and Implemented the Kalman and Extended Kalman Filter to **Filter/Estimate** flight data at PCMC Radar-2 • Long time missed and noisy data results in permanent loss of target ,which can be avoided by Estimating/ Filtering the data at PCMC-2 itself rather than increasing the further delay in Estimating/ Filtering the data at other processing unit Guide: Dr. Srinivasa Babu (Scientist – H)
2.	**Oil and Natural Gas Corporation of India , Dehradun** May to July 2007 Title: Computer Network • Study of Computer Network implemented at Geological Data Processing and Interpretation Unit Guide: Sr. Er. B.G.Chaurasia (E&T)

Software skills

- Languages and OS :   C , Assembly Languages ,Windows, Linux
- Software tools: Matlab , PSpice, Verilog, Cadence, MS Office ,Image CV

Relevant Courses

Computer Software , **Algorithm Design and Analysis** ,Pattern Recognition ,**Machine Learning** ,Computer Graphics,
Data structure & Object Representation, Probability and Stochastic Processes

Position of responsibility

Position , Organisation	Year	Achievement/Duties
Bridge Captain LLR Hall , IIT Kharagpur	2008-2011	• Fourth among 12 teams in Interhall Bridge Tournament • Organized workshop at LLR Hall
Chess and Bridge Secretary LLR Hall , IIT Kharagpur	2007-2008	• Organized Intra Hall Chess Tournament (2nd yrs-5th yrs)
Junior Hall Captain , Bharat House Sainik School Rewa	2000-2001	• Won overall Championship Trophy

Extra-curricular activities

- Member of LLR Hall Bridge team ,2007-2011
- Member of **Silver** winning team in Open IIT hockey tournaments, 2007-2008
- Secured 2nd rank in Hindi elocution competition at "Manzar" annual literary festival at IIT-Kharagpur -2007
- Secured 3rd rank in Hindi elocution competition (fresher's event) at IIT- Kharagpur (2006).
- Awarded **NCC 'A'** certificate by Authority of Defence NCC, Rewa, M.P. 2002
- Secured 3rd out of 200 students in Inter Hall X-country Race of 7.5 Km at Sainik School Rewa , 2001-02
- Represented Sainik School Rewa in junior level Inter-schools Hindi debate competition.
- Awarded Rank 1 in District level Hindi Debate competition -1998