

Guchu Nathani

Education:

Dual Degree (Electrical Engineering)	IIT Kharagpur	CGPA: 7.02 / 10	2006-2011
XII	Modi Public School (CBSE)	Percentage: 73%	2004
X	Shanti Niketan (CBSE)	Percentage: 80%	2002

Internships:

Smart Grids Project:	Hochschule Darmstadt, Germany	May-July 09, May-July 10
<ul style="list-style-type: none">Developed a fuzzy logic based 'Decision Assistant' to help in inflow/outflow of electrical power from various sources in case of energy deficit/excess in the corporate sponsored smart grid project for HEAG Südthessische Energie AG (HSE).Developed an ANN based load forecast system for different time resolutions which improves planning & preparedness.Was invited for 2 years in a row owing to successful completion of my part and dedication to the project.		
Larsen & Toubro India Limited	Vadodara, India	June-July 08
<ul style="list-style-type: none">Did analytical research for the company in relation to the market status of Ready Mix Cement Concrete industry.		

Courses and Certifications in Finance:

- NCFM Certified Dealer** in Investment Analysis & Portfolio Management, Options Trading strategies, Derivatives Market (Dealers) & Currency Derivatives (Beginners) modules.
- Industrial Economics**
- Financial Engineering**
- Probability and Stochastic**

Key Academic Projects:

Simulation and Design of a 3ϕ Rectifier for wind power Generators: (M.Tech Project)	IIT Kharagpur
<ul style="list-style-type: none">Combination of a three-phase diode bridge and a dc/dc boost converter to develop a new 3ϕ three switch three level pulse width modulated rectifier system.Simulating the circuit in the current phase, a hardware implementation to be used with variable voltage/frequency sources being developed in the department is to be done in the next phase.	
Modeling of fuel Cells: (B.Tech Project)	IIT Kharagpur
<ul style="list-style-type: none">Modeled and simulated fuel cells using Simulink in order to study the variation of output voltage with temperature and simulation of circuitry for converting the output into 3ϕ AC.Was appreciated for comprehensive topic coverage and was awarded 'A' grade.	
Prediction of currency crisis using hybrid Neuro-fuzzy modeling: (term project)	IIT Kharagpur
<ul style="list-style-type: none">Developed a Neuro-fuzzy based forecast system for currency crisis based on factors like economic reserves, M2/reserves ratio, exports and exchange rate.	
Working of the Indian Energy Exchange: (term project)	IIT Kharagpur
<ul style="list-style-type: none">Prepared and presented a term paper to study the process and strategies of energy trading in the Energy Exchange.	

Positions of Responsibility:

Hall President: (09 -10)	Patel Hall, IIT Kharagpur
<ul style="list-style-type: none">Was solely responsible for the smooth functioning of the hall comprising of more than 450 boarders.Planned and executed changes like renovation of online mess system, systematic monitoring of cleaning contractor and sports/social-cultural infrastructure improvement.Proposed a total budget of nearly R500,000 from which I directly planned an expenditure of R200,000.Helped, in presenting a very successful Illumination, in achieving 1st position in the Sports General Championship and in achieving a 2nd position in the Social & Cultural General Championship.	
Member, Student's Senate & Student's Forum (09 -10)	Gymkhana, IIT Kharagpur
<ul style="list-style-type: none">Represented my hall as a member in the two topmost student bodies of IIT Kharagpur.	
Captain, Dramatics: (10 - 11)	Patel Hall, IIT Kharagpur
<ul style="list-style-type: none">Having acted and directed in many interhall and intercollege dramatics events was nominated as the captain for interhall dramatics in the Social and Cultural General Championship.	
Secretary, Dramatics Subcommittee: (07 - 08)	Patel Hall, IIT Kharagpur
<ul style="list-style-type: none">Took care of the financial and material acquisition aspect of the events with a budget of around R30,000.Having done my work sincerely I was presented with the 'Best Hall Work' award.	

Extra Curricular Activities:

- Director & protagonist: Silver** winning Play (Inter-college), **Director:** street play on aids-awareness for workers and truck drivers at the local dealership of Tata Motors.
- Finalist** of national level ad-design competition, Marca-De-Fabrica, in Kshitij'07.
- Gold:** Inter Hall Eastern Groups (07), Inter Hall Choreography (08); **Silver:** Inter Hall Hindi Dramatics (08) **Bronze:** Inter Hall English Dramatics (07).
- Hobby: Hindi poetry writing.