

PRABHAT RASTOGI (06EC3203)

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EDUCATION

Institute	Degree	Year	Result	Distinction
IIT , Kharagpur	Dual Degree (Electronics & Elec.)	2011	8.55	Among top 10 % students.
Global Association of Risk Professionals	Financial Risk Manager (Part 1)	2010	Qualified	Quartile 1 (Q1) in all sections.
Avadh School, Lucknow	12 th (CBSE)	2006	86%	96 in Mathematics and 93 in CS.
Mysore West, Mysore	10 th (CBSE)	2004	90%	Ranked 1st among 60 students.

ACADEMIC ACHIEVEMENTS

Ranks and Scholarships	<ul style="list-style-type: none">Secured AIEEE Rank 175 (State Rank 12) out of 350,000 applicants (top 0.05%).Ranked 590 out of over 250,000 applicants in IIT JEE 2006.Awarded CBSE All India Merit Scholarship.Holder of 'Merit cum means scholarship' offered by IIT, Kharagpur.
Computer Science & Mathematics	<ul style="list-style-type: none">Awarded 'Certificate of Excellence' in C programming for my performance in the ACM Inter-provincial C programming competition 2008.Certified Diploma holder in C++ and JAVA programming at the age of 14.Distinction in 'National Mathematics Olympiad '04' (All India Teachers' Association).Ranked 7th in All India Mathematics and Science Talent Search Exam (Bright Scholar Foundation)Merit Certificate in Infosys Mathematics Olympiad '04Scored 98 & 96 marks in mathematics in 10th and 12th boards respectively.

INTERNSHIPS

School of Economics and Finance, Faculty of Business, Queensland University of Technology, Brisbane

Summer, 2010

(Accredited by EQUIS, AACSB and AMBA)

- Modelled complex macroeconomic variables** and extracted various parameters using statistical methods.
- Developed algorithms for handling over a **million data points** and extracting parameters with minimum complexity and implemented them using **GAUSS** (Statistical programming language) and **MATLAB**.
- Applauded for my **technical skills and result oriented approach** in the recommendation letter by my professor in-charge.

Bharat Dynamics Limited, Ministry of Defence, India

Summer, 2009

- Deciphered the mathematical model** of analogue circuitry of the control unit of an Anti Tank Guided Missile launcher.
- Implemented the system on an ARM microcontroller using Embedded **C Programming Platform**.

RELEVANT SKILLS AND COURSES

- Programming Languages: C, C++, Java, Visual C++, HTML, SQL.
- Software Packages: MATLAB, GAUSS, MS Office, AutoCAD, Open-Office, Mathematica.
- Language Skills: English, Hindi, Kannada, Tamil, German (Basic).
- FRM Topics:** **Valuations and Risk Modelling, Financial Markets and Products, Financial Mathematics**
- Courses/Labs: Industrial Economics, Probability and Statistics, Algorithms, Operations Research.

PROJECTS

Hand-writing recognition based calculator and equation editor.

- Implemented a neural network based **self learning system** that could be trained to recognize handwritten symbols.
- Programmed the microprocessor for complex image analysis using embedded C++.
- Awarded **3rd prize in Envision**, a product design competition organized by Entrepreneurship-cell, IIT Kharagpur.

Low cost drawing-pad that can directly feed data to a computer using USB.

- Developed a design that can be manufactured in **less than \$20** and be used as a **multi purpose scratch pad**.
- The product was awarded bronze in Inter Hall **Hardware Modelling Event**.

Power and chip-area optimization of video compression architecture for mobile applications.

- Simulated various compression algorithms using **Visual C++** and correspondingly developed an efficient hardware specification.
- Achieved **40% reduction in power consumption** and **25 % reduction in chip area** with negligible distortion in video quality.

POSITIONS OF RESPONSIBILITY

Student Coordinator, Counselling committee (IIT Kharagpur) 2009-10	<ul style="list-style-type: none">Conducted an awareness campaign about the new initiative of Dean (Student Affairs) to promote development of life skills and effectively handle stress related student grievances.Underwent training in QPR (Questioning Persuasion and Reporting) to help the psychiatric counsellor in identifying stressed students and evaluating their current mental states.
School Captain (Avadh School) 2005-06	<ul style="list-style-type: none">Organized a workshop on stress management for Board Examinations'06.Established a Career and Academic Counselling Cell. Prepared an information database and a book bank for various competitive exams (Engineering, Medical, NDA etc.).Organized a "Student Contribution Drive" for tsunami victims in 2005 as a part of the charity cell of my school. Raised over 2 lakh rupees.
Activist, Green Peace, Australia.	<ul style="list-style-type: none">Collected funds from college clubs to support anti-whaling campaigns.Organized an awareness camp in the QUT, Brisbane campus about climate change.

EXTRA-CURRICULAR ACTIVITIES

- Member of the **gold winning Technology Team** of Azad Hall. **Handled work distribution** among team members. Individual certificates in Hardware modelling and product design events.
- Actively involved in **KRAIG (Robotics Club) projects**. Only 1st year team to qualify for final round in Kshitij'07.
- Member** of the Transport and accommodation team of **Kshitij'07**.
- 'Certificate of Excellence' in the '**All India GK Exam, 2001**' conducted by **Centre for HR Development, Bangalore**.
- 1st prize in Inter-school Quiz'04 conducted by National Institute of Speech and Hearing, Mysore.
- 'Certificate of Merit' in City level GK Quiz'04 conducted by Ramakrishna Vidyashala, Mysore.
- Handled **lighting and sound teams** for choreography and dramatics events.