



# DEBAJIT BHATTACHARYA

E3-109, Meghnad Saha Hall of Residence, IIT Kharagpur, Kharagpur, India

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## ACADEMIC QUALIFICATIONS

Examination	Year	Board/University	%/CGPA
B.Tech(Hons) Electrical Engineering	2011	IIT Kharagpur	9.11/10
Class XII	2007	West Bengal Council of Higher Secondary Education	97.00 (Science)
Class X	2005	West Bengal Board of Secondary Education	91.75(Overall)

## ACADEMIC DISTINCTIONS

- Ranked 3<sup>rd</sup> in the Batch of 2007 (79 students), Department of Electrical Engineering, IIT Kharagpur
- Prova Basu Memorial Scholarship for Academic Year 2009-10 from IIT Kharagpur
- Topper of the Department of Electrical Engineering, IIT Kharagpur for Academic Year 2009-10
- Amul Vidya Bhushan Award 2007 for Securing First Position in the School in Standard XII Examination

## UNDERGRADUATE PROJECT

<b>A Novel High Speed Hybrid Mode Sense Amplifier</b>	<b>IIT Kharagpur</b>	<b>September'10 - Present</b>
<ul style="list-style-type: none"> <li>Proposed a novel Hybrid Mode Sense Amplifier (for Read operations from Memory Cells) whose Speed Performance is improved than existing topologies.</li> <li>The operation of the Amplifier is tested in 180 nm technology using a standard 6T SRAM cell.</li> </ul>		

## SEMESTER PROJECTS

- An Intelligent Laptop Power Supply Module Design
- Modeling of a Turbojet Engine and Control System
- Microcontroller and FPGA Based Implementation of Pattern Recognition – Application of Hopfield Neural Network

## ELECTIVE COURSES

- Industrial Economics (Department of Humanities and Social Sciences)
- Operations Research (Department of Mathematics)
- Computer Software (Department of Mathematics)

## INTERNSHIP

<b>University of Waterloo, Ontario, Canada</b>	<b>CMOS Design and Reliability Group</b>	<b>May'10 – July'10</b>
Responsibilities	<ul style="list-style-type: none"> <li>To design a Six Transistor Static RAM Cell (6T SRAM) in the device level.</li> <li>To perform Device Simulations to examine the effect of external radiations (alpha particles) on the stability (data retention capability) of the SRAM cell.</li> </ul>	
Achievements	A non-linear relationship between the Critical Energy required to flip the Data and the Location of Radiation Strike was obtained which is awaiting a Journal publication.	

## POSITIONS OF RESPONSIBILITY

**Governor – Technology Literary Soceity**, IIT Kharagpur, Academic Year 2009-10 – Compiled and Published Gymkhana's annual magazine "Alankar". Responsibility of Bengali Committee and subcommittee.

**Captain – Inter Hall Bridge Team** – MS Hall of Residence, Academic year 2009-10. Organized workshops for freshers practice and won **Gold** in the inter Hall Tournament to asist the Hall reaching 3<sup>rd</sup> Position in the Sports GC.

**Director of Lights** – Inter Hall Dramatics, MS Hall of Residence, Academic Year 2008-09. Head of the Lights team of MS Hall in Hindi and English Dramatics. Organized freshers workshops for Lights Practice. Won **Gold** in Bengali Dramatics.

## EXTRA CURRICULAR ACTIVITY

- Member of **Bengali Technology Dramatics Soceity** and **Technology Literary Soceity** for Academic year 2008-2010.
- Won **Gold Medal** in Inter Hall Bridge Tournament for Academic year 2009-10.
- Won **Gold Medal** in Inter Hall Bengali Dramatics for Academic year 2009-10.
- Member of Inter Hall Ad-Design and Case Study teams.
- Favourite hobbies – Playing Guitar, Playing Table Tennis and bridge.