

Sushovan De

Department of Electronics and Electrical Communication Engineering,
IIT Kharagpur.

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Objective

To secure a challenging position commensurate with my background.

Academic Achievements

Class X	Indian council for Secondary Education, New Delhi	Passed with 94.4% marks
Class XII	Indian council for Secondary Education, New Delhi	Passed with 94% marks
Undergraduate level, 5 th Semester	IIT Kharagpur	CGPA of 8.33

Among the different courses that I have taken, the following are relevant:

- Basic Electronics
- Programming and Data Structures
- Analog Electronic Devices
- Electromagnetic Engineering
- Digital Electronic Devices
- Analog Communications
- Semiconductor Devices
- Computer Architecture and Operating Systems
- Soft Computing Tools in Engineering
- VLSI Engineering
- Digital Communications

Capstone Project

"Serial Communication Protocol to Ethernet converter" under Prof. Somnath Sengupta of Electronics and Electrical Communication Engineering Department, IIT Kharagpur.

Brief Description: The objective is to design and implement an embedded microprocessor based system that converts raw incoming serial data to a format easily and consistently recognized by a computer. Further, to handle multiple such data sources and multiplex them seamlessly for easy and convenient processing by a computer.

Other Projects

- *"Landcover Classification using Damspter-Shafer techniques"* under Prof. A Sarkar, Maths Deptt., IIT Kharagpur.
- *"Hydrodynamic Modelling of a MOSFET under sub-threshold conditions"* under Prof. T K Bhattacharya, E&ECE Deptt. IIT Kharagpur.
- *"Searching for Music files based on tone signature detection"*, for a Soft-Computing Tools in Engineering Seminar.
- *"Verilog implementation of a fast modified Booth's Algorithm multiplier"*.

Programming Languages known

- *Java:*
Two years of active programming experience.
This includes work that I have done while I was associated with Innovations Lab, IIT Kharagpur, and other projects that I had undertaken on my personal interest.
I had developed a complete system that kept track of books in a library using Java. I had also developed Graphics applications like a version of the LOGO language written by me in Java. I have written numerous tools to help in programming, including a search facility for helper functions in Java, saving code files to syntax highlighted html pages, etc.
- *C:*
I have two years of programming experience in C.
I have taken a course in my undergraduate program, "Programming and Data Structures" that involved practical laboratory work involving programming in C. I obtained the highest grade, 'EX' in that course. Besides that, the project "Serial Communication Protocol to Ethernet converter" involved extensive coding in Dynamic C.
- *C#:*
I have learnt and programmed using C# for over one year.
I have developed applications for the project *"Landcover Classification using Damspter-Shafer techniques"* using Visual C#. These applications

had to be algorithmically strong and still be as user-friendly as possible. I have also actively developed applications with the new Windows Presentation Foundation (Avalon) programming model and have written a number of programs using them.

Other than the programming languages mentioned above, I am comfortable with the following languages:

- SQL and database management
- C++ and Visual C++
- Visual Basic
- HTML and Javascript
- JSP (Java Server Pages)

Platforms familiar with

- Windows XP/2000/98
- Linux (Mandrake, Red Hat and Fedora Core)
- Solaris

Knowledge of professional software

- Visual Studio
- Matlab
- Mathematica
- PSpice
- Xilinx

Areas of Special Interest

- Digital Image Processing
- Digital Signal Processing
- Programming

Work Experience

For a period of two years I was a Java group member of Innovations Lab, IIT Kharagpur. During this time, I worked on a project to digitize the hall libraries of the

campus. This software was implemented in Azad Hall of Residence. I am currently a Java Group head of the Java group and I am continuing the work of making a web-based administration software for the Training and Placement Section, IIT Kharagpur.

Membership of Professional Bodies

Head, Java Group, Innovations Lab, IIT Kharagpur. (2005)

Academic Accolades

- Qualified for the prestigious National Talent Search Scholarship, NCERT, New Delhi.
- Recipient of the prestigious Jagadis Bose National Science Talent Search Scholarship.
- Placed in the National top 1% in National Physics Olympiad and qualified for the national level.
- Achieved All India rank 313 in the IIT JEE mains examinations 2003 (All India Rank 152 in the screening test).
- Achieved a state rank of 4th in the AIEEE (All India Engineering Entrance Examination) examination 2003.
- Achieved rank 56 in the West Bengal Engineering Joint Entrance Examinations 2003.
- Qualified for the first round in Google Code Jam Competition 2005, an online programming competition organized by Google.