



**Area(s) Of Interest :** Heat Transfer, Chemical Reaction Engineering

<b>Educational Qualifications</b>	<b>Year</b>	<b>Board/Institution</b>	<b>CGPA*/ %</b>
UG ( IV Year I Semester )	2009	IIT Roorkee	8.064
Twelfth Class	2006	CBSE/Sanjay Public School, Chandigarh	84.200
Tenth Class	2004	CBSE/St. Joseph's Convent Sec. School, Bhatinda, Punjab	87.800

\*GPA on a scale of 10

## **INTERNSHIP**

### **Reliance Industries Limited, Jamnagar, India**

#### **High Temperature Problem in 1st effect of a Desalination Unit ( May 14, 2009 - July 14, 2009 )**

The summer internship included the In-Plant training at Reliance Jamnagar, Gujarat. Studied the desalination unit to solve the problem of high temperature in its first effect. The recommendations were implemented, resulting in resolving the problem, increasing production of desalinated water by 10-15 m<sup>3</sup>/hr and giving an estimated savings of INR 1.5 crores per annum for the company.

## **PROJECTS**

### **Department of Chemical Engineering, IIT Roorkee**

#### **Techno Economic Feasibility Studies and Plant Design for the Manufacturing of Acetic Anhydride from Biomass based Alcohol ( September 2009 - ongoing )**

The project involves a comprehensive literature study of the assigned task for process selection followed by process flowsheeting of individual plant units, modeling and simulation for designing the equipments involved in the unit operations taking into account control and safety aspects. Environmental aspects and energy conservation will be taken into consideration. Economic evaluations including breakeven point calculations and profitability of the project will be undertaken.

### **Ranbaxy Laboratories Limited, Mohali, India**

#### **Helped in improving Design of a Distillation Column ( May 26, 2008 - July 1, 2008 )**

Was part of a team working on redesigning the distillation column for improving the performance of the column to separate ethanol from water.

### **Information Management Group, IIT Roorkee**

#### **BuySell - Online Application ( August 2007 - November 2007 )**

Designed and implemented an online portal for the institute intranet to provide a platform for the students where they can buy and sell items like books, electronic goods etc. The portal was built using Python programming language and utilized SQL database to manage information. Team Size: 2. Worked as: Chief programmer.

## **SKILLS AND ACHIEVEMENTS**

### **Computer Languages:**

Python, HTML

### **Software Packages:**

Macromedia Dreamweaver, Linux OS

### **Additional Courses Taken:**

Intellectual Property Rights, Industrial Sociology, Management Concepts & Practices, Economics, Group Dynamics

### **Languages Known:**

English ( S/R/W ); Hindi ( S/R/W ); Punjabi ( S/R/W );

## EXTRA CURRICULARS

### **Coordinator Product Development and Management, IMG ( 2009 )**

Held the positions of a Web Coordinator (in 2007), Project Leader (in 2008) and presently Product Development and Management Coordinator of the Information Management Group (IMG). IMG, a team of about 40 students, is responsible for the development and maintenance of Institute Website and various other software solutions for the Institute Intranet.

### **General Secretary, Himalayan Explorers' Club (HEC) ( 2009 )**

Held the position of Joint Secretary (in 2008) and presently the General Secretary of the Himalayan Explorers' Club. HEC is responsible for organizing various events such as treks, rafting, rock climbing, paragliding. Around 500 students participate in all these events held throughout the year. Was trek leader for 2 treks and also, successfully completed a 7 day rock climbing training at NTMC, Nainital.

### **Organizing Secretary, Department of Chemical Engineering, Cognizance'09 (Institute's Technical Festival) ( 2009 )**

Held the position of Organizing Secretary in the departmental core team for the Institute's technical festival Cognizance. Led a team of 25 students to organize various events held at the department. Was Co-coordinator for IDEAZ, a technical paper presentation contest held during cognizance 2008.

### **Volunteer, National Service Scheme (NSS) ( 2006 )**

Under Prerna cell of NSS, taught students from 6th to 10th class who could not otherwise afford tuition fee. Actively participated in organizing events such as Blood Donation camp, Tree Plantation drive.

### **Class Representative, Chemical Engineers Student Society (ChESS) ( 2006 )**

Acted as a liaison between students and faculty. Organized various activities like fresher party, guest lectures and annual sports day.

### **Third Prize, Cognizance '08 ( 2008 )**

Won third prize in Chemomania and Catalyseur, both being technical events held in Department of Chemical Engineering during Cognizance.

### **Security Co-coordinator, Thomso '07 (Institute's Cultural Festival) ( 2007 )**

Coordinated a team of 10 students and monitored the security in Thomso 2007.

## PERSONAL DETAILS

**Fathers name :** Om Parkash Bansal

**Date of Birth :** 07-03-1988

**Gender :** Male

**Category :** General

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## REFERENCES

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