



**Ramanjit Singh Anand**  
**Chemical Engineering**  
**IIT Bombay**

**Specialization: Process System Design and Engineering**

**07D02012**

**Dual Degree (B.Tech+M.Tech.)**

**Male**

**DOB: 4/08/1989**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.97
Intermediate/+2	CBSE	BDPS Patiala	2007	92.80
Matriculation	CBSE	DAV PS Patiala	2005	94.20

## AWARDS AND SCHOLARSHIPS

- Awarded **Institute Organisational Colour** (received by 7 out of 6000 students) for dedicated service as Institute Secretary Academic Affairs for the year 2009-10
- Received **Faculty Senate Appreciation** Certificate for contribution as ISAA 2010-11
- Recipient of National Talent Search (**NTSE**) scholarship 2005; awarded to top 0.1 % students in India
- Awarded coveted **Narotam Sekhsaria Scholarship** 2010 for overall excellence (Given to 2 out of a batch of 85 students of Chemical Engg. Department)

## LEADERSHIP EXPERIENCE

**GENERAL SECRETARY, UNDERGRADUATE ACADEMIC AFFAIRS, IIT BOMBAY**

[Apr '11- present]

*Elected academic representative of over 3500 undergraduate students*

- Currently heading a team of 12 member Special Academic Task Force and 3 Institute Secretaries
- Established **Career Building Cell, IIT Bombay**; a one-stop portal for facilitating career choice
  - Amassed information related to work profiles and growth options from Alumni and other Company officials; conceptualized a website to host the knowledge
  - Organized Expert talks from various industrial sectors to foster clarity in making a career choice
- Initiated and supervised the **Institute Academic Curriculum Review** with exhaustive surveys from students and faculty; got rescheduling of courses based on prerequisites approved
- Revamped the **Summer Course Allocation System** by proposing monetary incentives for faculty also changing the costing of the same, increasing number of such courses by **200% from last year**
- Introduced e-mail, SMS **notification system** to increase transparency in processing of applications

**INSTITUTE SECRETARY, ACADEMIC AFFAIRS (ISAA), IIT BOMBAY**

[Apr'09-Apr'11]

*The second highest student post for the academic policy making*

- **In-charge Application for Higher Studies Cell, IIT Bombay**
  - Envisaged and created a forum for one-on-one mentoring by about 80 alumni
  - Conducted Statement of Purpose (SOP) writing workshops and GRE/TOEFL classes for helping students in applying for higher studies which were attended by more than 100 students.
- Mobilized the authorities to allow personal books in the Central Library premises; a demand for 10 years leading to 50 % increase in the library outreach
- Organized first ever **English Classes** with Career Launcher helping weaker students hone their skills

**MANAGER PUBLICITY AND INFRASTRUCTURE, AZEOTROPY 2010**

[Dec'09-Mar'10]

*Annual Technical Festival of Department of Chemical Engineering, IIT Bombay with a footfall of over 1000*

- **Spearheaded the publicity** campaign of the two day long dept. festival in colleges throughout India increasing the footfall by 50 % from previous year
- Managed all infrastructure requirements of the fest with the help of a team of 10 students

**SPORTS SECRETARY, HOSTEL 4, IIT Bombay**

[Apr'08- Mar'09]

- Motivated and mobilised inmates of **Hostel 4 to win the Sports General Championship'09**

## INDUSTRIAL EXPERIENCE

### PEPSICO. India Holdings Fritolays, Sangrur, Punjab

[May-July' 09]

- Worked on online **process efficiency improvement** for LAYS (potato chips) and Kurkure production
- Identified methods to reduce **Starch Loss** and oil intake during production
- Achieved **reduction in the oil content by 10%** of LAYS through process modifications

### SIEMENS Information Systems Limited (SISL) , Bangalore

[May- July' 10]

- Was the only undergraduate student selected by SIEMENS for internship through Internship Cell
- Researched **Tar** production and **cracking** of the same in a Multifuel Biomass Gasifier
- Modeled a Downdraft Gasifier to verify the experimental results for Coconut Shell used as fuel
- Suggested **process modification** for in situ attenuation of tar which were appreciated thoroughly

### A P Solvex Limited, Sangrur, Punjab

[Dec'08]

- Examined the various stages of manufacturing process for the Oil and various by-products
- Investigated and standardized the quality of Asia's highest selling Rice Bran oil (RICELA) brand

## ACADEMIC PROJECTWORK

### BIOSYNTH, BIODIESEL PLANT AT IIT BOMBAY

(Oct'08 - Apr'09)

*Setting up of India's first ever biodiesel plant at the institute level with a budget of INR 3.5 million*

- Designed the process flow and conducted a detailed cost and safety analysis of the plant
- Pursued catalytic production of Bio-diesel in lab environment to be scaled up to **setup self sustaining Bio-Diesel plant** to run campus vehicles on bio-diesel

### Marketing Strategy Analysis of McDonalds

[Aug-Oct'09]

- Scrutinized the company's current **Segmentation, Target Markets** and Marketing Mix
- Conceptualised the launch of a new product (Sandwiches and Crushers) with proper **Pricing, Distribution** and Promotion strategies

### Energy Efficiency Improvement of Ball Mill, (Master's Thesis)

[May'11- present]

- Carried out a literature survey to identify the factors contributing to the energy efficiency of the mill.
- Performed experiments to validate claims made in the literature and will be devising strategies to improve the efficiency.

### Conversion of Biomass to Vehicular Fuels, (Junior Thesis)

[Jul- Nov'10]

- Performed a comprehensive Literature Survey on various methods to convert Biomass into fuels
- Modeled all the processes involved in system using **Aspen 13.1** including acid gas removal, Fischer Tropsch Synthesis (FTS) and fractional distillation of the FTS product

### Models of Foreign Exchange Rates Analysis,

[Mar-Apr' 09]

- Examined the different types of foreign exchange rates namely **spot and forward**
- Understood various Models governing foreign exchange rates

## EXTRA CURRICULAR ACTIVITIES

- Won the **Gold Medal** in Inter Hostel **Table Tennis General Championship 08-09**; represented Hostel 4 in table tennis from 2008-10; Captained in 2011
- Won **Silver Medal** and represented Patiala at **Zonal Level** Table Tennis Tournament in 2004
- Won **First Prize in F1 car race** organized by Technic the technical club of IIT Bombay
- Secured **First Position in Extempore** competition at Freshizza, cultural festival for freshmen in 2007
- Adjudged the **Best Speaker** at District level Declamation contest, Punjab Academy of Sciences, 2004
- Awarded **First Prize** in District level **Science Quiz** organized at DAV Public School, Malerkotla