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Indian Institute of Technology, Bombay

07011024  
B.Tech.  
Male  
DOB: 8th Jun'88

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2010	7.03
Intermediate/+2	C.B.S.E.	Aklank Public School, Kota	2006	81.40
Matriculation	C.B.S.E	DAV Public School, Koderma	2004	86.00

## INTERSHIPS

**TATA STEEL, Jamshedpur** [May-July'10]

Guide: Mr. P.K Tripathi, Head, Flat Product Technology Group

- Diagnosed the Cold Rolling Mill (CRM) process and ascertained that the Batch Annealing Furnace (BAF) induces yield stress variation in Cold Rolled coils
- Observed Skin Passing Mill in detail to correlate yield stress variation with skin pass roll force
- Recommended use of specific roll force instead of initial constant roll force to reduce yield stress variation
- Awarded a **Pre-Placement Offer (PPO)** for outstanding work as an intern to join Tata Steel

**INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD** [Dec'09]

Guide: Prof. G. Raghuram, Public Systems Group, Indian Railways Chair Professor

- Comprehensively studied and predicted the **logistical requirements of the steel industry** for the coming years and assisted in **formulating a model** demonstrating revenue from the steel sector to the railway ministry
- Analyzed the **financial and accounting changes** mentioned by the **Ministry of Railways** for the duration 2002-08 as per the "White Paper on Indian Railways" published in Dec'09
- **Prepared a case study** for the curriculum of the institute on the **Railway Claims Tribunal** by analyzing a few claim cases and their trends for the past five years

**STEEL AUTHORITY OF INDIA LIMITED, Bokaro** [May-June'09]

- Observed and analysed **steel making process** at the plant from the point of handling of raw materials to the finished products
- Worked in Research & Control Lab for testing and inspection of raw materials, intermediate and final products made

## KEY ACADEMIC PROJECTS

**STRUCTURAL PROPERTY CORRELATIONS IN RAIL STEELS** (Final Year Project) [July'10-present]

Guide: Prof. R.C Prasad, IIT Bombay

- Carried out an extensive literature survey on the various grades of railway track steel, their properties and causes of its failures
- Analyzing the **influence of microstructure** on fracture toughness and fatigue growth crack behaviour of railway steel to propose suitable measures to **prolong its life**

**CORROSION PROBLEM IN OIL AND GAS PLANTS** (Seminar) [Feb'10-Apr'10]

Guide: Prof. A. S. Khanna, IIT Bombay

- Conducted literature survey on types of corrosion, corrosion in offshore production unit, refinery unit & oil storage tanks
- Recommended **Field Signature Method (FSM)** for corrosion monitoring which is new NDT technology for inspection and monitoring of metallic pipe and structure

## SINTERING OF IRON ORE (Course Project)

[Aug'10-Nov'10]

Guide: Prof. N. B. Ballal, IIT Bombay

- Carried out the detail literature review of the **sintering process** and identified the advantages of agglomerated sinters over the lump ore
- Classified the sinters in four basic types according to their **microstructure** and established the relation between microstructure and the raw materials used

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## POSITIONS OF RESPONSIBILITY

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### GENERAL SECRETARY, Hostel 6, IIT Bombay

[Apr'10-present]

- Elected by 448 students to head a **three-tier council** of 28 members responsible for complete **administration** and **representation** of the hostel at the institute level
- Part of a 15 member **institute body** responsible for formulation and review of **hostel constitution** and **policies**
- Formulated a plan to use the hostel funds of **₹ 10 Lakh** in upgradation of hostel infrastructure and amenities
- Coordinating with the Institute authorities to ensure bathroom renovation, basketball court construction, painting of rooms and outside, which was on-hold for more than 5 years
- **Introduced** the concept of weekly earth hour and installed motion sensors, LED lights and geyser timers to **reduce energy consumption** significantly
- Launched "**Page Six**" (a biannual hostel magazine) to update hostel inmates and alumni about the recent news and events in hostel along with providing a platform for amateurs
- Increased Alumni database **5-fold** by conceptualizing various new events for VAR'10 (**Vikings Alumni Reunion**)

### JOINT SECRETARY, Metals & Materials Association (MMA), IIT Bombay

[Apr'09-Mar'10]

- **Initiated** new informal events like **department sports day** and **movie night** in coordination with faculty members which witnessed a footfall of over 100 students leading to strong faculty-student interaction
- Conceptualized a **B-Plan competition** in Padarth (Dept. Fest) which received an **overwhelming response** and is now set to be an **integral part** of the fest
- Efficiently managed and distributed the department budget of ₹ 2 Lakh among various events
- Awarded an **Organizational Mention** for excellent work by the Head of Department

### SOCIAL SECRETARY, Hostel 6, IIT Bombay

[Aug'08-Apr'09]

- Responsible for promoting and maintaining a healthy social interaction within the 450 students
- Instrumental in leading hostel to **third Position** in overall cultural general championship
- Doubled the participation in cultural events by introducing informal events like Scavenger Hunt, Water-fight, Tug-of-war and Fresher Night
- Awarded an **Organizational Colour** for the outstanding work done as a **Social Secretary**

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## EXTRA-CURRICULAR ACTIVITIES

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- Completed 25 days "**Basic Mountaineering Course**" successfully in Western Himalayas, Manali. Scaled a height of 16,000 ft and learnt skills of rock climbing, snow-craft, ice-craft and glacier travel
- Cycling enthusiast and accomplished long-distance cycling trips to various beaches in Mumbai
- Was part of **gold winning** sophomore cross country and **silver winning** hockey team in 2008
- Acted in the **winning** Performing Art Festival'08 and was awarded with **Special Mention** for the same
- Awarded with **PAF Mention** for efforts in production for two consecutive year (2009, 2010)