



GAURAV BHARTI
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: Computer Aided Design (CAD) & Automation

09D10024
UG Fifth Year (Dual Degree)
Male
DOB: 25.09.1990

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.01

Scholastic Achievements

- Honored with **SBI Merit Scholarship** for consistent performance since high school (**High School: 95%, Senior School: 92.6%**)
- Granted prestigious **WISE Scholarship** by DAAD for research internship in **Germany**; Predicated with "**Summa Cum Laude**"
- Selected for NIT Merit Fellowship for securing a rank of **AIR 469** and state rank of **9** in AIEEE 2009 among 10 Lakh students

Industrial and International Experience

Asian Paints, Rohtak Plant | *Power Consumption Optimization at Fully Automatic Water Based Plant* May'13-June'13

- Critically analyzed **numerous trends** in DCS during the paint dispersion and mixing in Twin Shaft Dispensers
- Presented a **long-term** and **short term** action plan with **8 innovative proposals** to reduce the power consumption by **35%** and to make it more consistent; **Implementation** of two proposals saw **20% decrement**

TU Kaiserslautern, Germany | *Long Range Correction for Quadrupole fluids for Planer Interfaces* May'12-July'12

- Analyzed** various fluids with Quadrupole interaction without considering these moments against the experimental results
- Derived and Implemented** new long range correction schemes for Quadrupole interaction using numerous simulations

Universität Paderborn, Germany | *Molecular Simulation MS2* May'11-July'11

- Performed simulation for **around 250 binary mixtures**; Analyzed and correlated the results with experimental results
- Reduced** total time of the simulation by **20%** for Molecular Dynamic Simulations and **35%** for Monte Carlo Simulations

Key Academic/Research Projects

Adaptive Algorithm to Active Noise Control | *Masters Dissertation, Mechanical Engineering, IIT Bombay* May'13-Present

- Studied various **Adaptive Algorithms** used currently in Active Noise Control and identified the scope of improvement
- Currently developing an **experimental setup** to test various algorithm to provide accuracy to control of impulsive noise

Medical Device Innovation | *OrthoCAD Lab, Mechanical Engineering, IIT Bombay* Jan'13-May'13

- Proposed and conceptualized new design of an **artificial human elbow joint** with severely fractured humerus
- Was judged as the **best device** among six others by a panel of doctors, design and material engineers

Leadership Roles

General Secretary | *Hostel 7, IIT Bombay* Apr'12-Apr'13

*Elected by huge margin by 450 hostel inmates; Led **three-tier team** of 34 members with **50 initiatives**; Managed a budget of **₹12 Lakhs***

Achievements	<ul style="list-style-type: none"> Awarded with prestigious "Institute HGSC Organizational Color", (2/7000) for an outstanding tenure Led Hostel to win "Overall Sports GC", first non-fresher hostel to lift the trophy after at least 20 years
Infrastructure	<ul style="list-style-type: none"> Got commenced long pending Bathroom renovation project worth ₹72 Lakhs removing administrative and Infrastructural bottlenecks; Got approved and sanctioned projects worth ₹ 80 Lakhs in total Developed the tender by inspected specifications and got constructed basketball court worth ₹2,76,000, achieved price reduction of 31.4% (₹ 1,26,719) with better specifications
Hostel Initiative	<ul style="list-style-type: none"> Improved the mess satisfaction rate from 38% to 74% with various initiatives for quality, menu and sanitation, stood 2nd in best mess competition Developed Hostel award constitution; got it approved making it independent of subsequent council
Mentorship	<ul style="list-style-type: none"> Mentored 78 council members in span of 3 years for their personal & hostel development as a whole

Cultural Councilor | *Hostel 7, IIT Bombay* Mar'11-Mar'12

*Elected **unanimously** for development of hostel culture; Led team of 10 members and managed the cultural budget of ₹ 2 Lakhs*

- Strengthened overall Cultural GC position to **3rd as compared to 9th** of last year; **1st** position among Non-fresher hostels
- Awarded with "**Hostel Organization Color (4/450)**" for remarkable tenure

Others Positions of Responsibilities: Women Cell Nominee '13, Department Academic Mentor' 13, Social Secretary' 10

Extra-Curricular Activities

Social	<ul style="list-style-type: none"> Associated with "One Child, One Light", Raised ₹ 25,000 for providing solar lamps to rural children Led to the implementation of Minimum Wages Act for Mess employees with continued negotiation
Digital Arts and Fine Arts	<ul style="list-style-type: none"> A Freelancer Designer, Proficient in Photoshop; Developed many posters and T-Shirt designs 1st position 3D modelling GC'11; Awarded PAF Color'11 (6/420) for contribution in designing of Prod
Adventure Sports	<ul style="list-style-type: none"> Adventure Sports Enthusiast; Trained in Rock and Wall climbing, Jumaring, Rappelling & snow crafting