



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

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

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.69
Intermediate/+2	CBSE	Delhi Public School, Bokaro	2008	92.60
Matriculation	CBSE	BR DAV Public School, Barauni	2006	95.00

SCHOLASTIC ACHIEVEMENTS

IIT-JEE	<ul style="list-style-type: none">Percentile of 99.42 in IIT-JEE 2009 out of around 0.4 million students appeared.
CBSE-AIEEE	<ul style="list-style-type: none">Percentile of 99.95 in AIEEE 2009 out of around 1 million students appeared.Had All India Rank of 469 and State Rank of 9.
National Olympiads	<ul style="list-style-type: none">In National Science Olympiad 2005, was awarded Gold Medal for securing 27th rank all over India.
DAV special achievement Award	<ul style="list-style-type: none">Was awarded gold medal by the then HRD Minister of India Arjun Singh for securing 90% marks in AISSE 2006.

SUMMER INTERNSHIP: Thermodynamik und Energietechnik ThEt, Universität Paderborn, Germany

Project Duration: May to July 2011

Project Area: Dynamics of Molecular Simulation

- Involved in the extensive research with *Prof. Jadran Vrabec* on the excess properties of around 250 binary mixtures using molecular simulations.
- Plotted the experimental and simulated results and inspected the domain of molecular simulation for predicting thermodynamic properties.
- Discovered some unexplored properties and the work on publishing the research paper is underway.

WINTER INTERNSHIP: Children Technology Workshop, Mumbai

Project Duration: December 2010

Project Area: Curriculum Development

- Involved in the curriculum development of robotics for children of age 9-14. It involved building and testing robots projects using lego mindstorms with the R&D team of CTW.
- Developed my designs and CAD representation building tutorials of a pole climber robot using lego which was the problem statement of IRO 2010.

PROJECTS UNDERTAKEN

UNIQUE USER IDENTIFICATION USING C++ (July 2009- December 2009)	<ul style="list-style-type: none">Under guidance of <i>Prof. D B Phatak</i> (senior faculty of CSE, IITB), made a group project for unique user identification using finger print detection using C++.Was involved in development of algorithm and code for fingerprint matching by minutiae detection and forming of template of the finger print.
ROLE OF MATERIALS IN JOINT REPLACEMENTS (July 2010- December 2010)	<ul style="list-style-type: none">Under guidance of <i>Prof. G V Prabhugaunkar</i> (Faculty of MEMS, IITB), made a project for identifying different materials to be used in joint replacements of bones.It involved identification of the crucial properties and comparison of candidate materials and predicting the best based on performance index.

POSITIONS OF RESPONSIBILITY	
Cultural Councillor , Hostel 7 (April 2011-Present)	<ul style="list-style-type: none"> Leading a team of 10 cultural secretaries and has the responsibility of managing all cultural events of the hostel in and out of the hostel.
Coordinator, Infrastructure Techfest 2011	<ul style="list-style-type: none"> Managed all infrastructural requirements ranging from power plugs to Hanger in Lecture series, Techfest 2011, Aisa's largest technical festival.
Social Secretary, Hostel 7 (August 2010-April 2011)	<ul style="list-style-type: none"> Planned and organized around 15 Social Events including Indian festivals and various social games around the year. Designed the Hostel T-Shirt and posters for all events in the hostel.
RELEVANT COURSES	
Department Oriented Subjects	
<ul style="list-style-type: none"> Solid Mechanics Engineering Mechanics Strength of Materials Engineering Metallurgy Thermodynamics Fluid Mechanics Heat Transfer Manufacturing Processes Rapid Product Development 	<ul style="list-style-type: none"> Industrial Engg. and Operations Research Discrete Event System Simulation Introduction to Electrical & Electronics Circuits Introduction to Industrial Design Manufacturing Process Lab* Engineering Graphics & Drawing* Solid Mechanics Lab* Economics Human Cognitive Process
IT Oriented Subjects	
<ul style="list-style-type: none"> Computer Programming and Utilization <p>Note: Courses marked with * indicate a Lab component.</p>	
SOFTWARE SKILLS	
Languages	C++, HTML, SQL
Operating System	Windows, Linux.
Softwares	MATLAB, SciLab, MS2-Simulation, Sigma Plot
CULTURAL ACHIEVEMENTS	
PAF Color	<ul style="list-style-type: none"> Had actively participated in designing and structuring of the Prod for the PAF "Chasm-e-num" and was awarded PAF color for the same.
Movie Editing and Photography	<ul style="list-style-type: none"> Was the Editor of the movie "DRUGS DOSTI ETC" that bagged second position in movie making competition, Freshizza 2009.
General Championship	<ul style="list-style-type: none"> Had participated in hostel entry in Gyration that stood 4th and Main Dram GC .
EXTRA-CURRICULAR ACTIVITIES	
Most Disciplined Boy	<ul style="list-style-type: none"> Was awarded "Most Disciplined Boy of the School" for the year 2003.
SPORTS ACHIEVEMENTS	
Adventure sports	<ul style="list-style-type: none"> Completed 15 days of Basic Mountaineering Course, Manali'10 and was trained for rock climbing, Wall climbing, Jumaring, Rappelling, trekking, snow crafting and different type of knots.