

Neha Bharti Nogia Mechanical Engineering Indian Institute of Technology, Bombay 08010025 B.Tech. Female

DOB: 07/04/1989

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.14
Intermediate/+2	CBSE	Kendriya Vidyalaya No.4, Jaipur	2007	84.60
Matriculation	CBSE	Kendriya Vidyalaya No.4, Jaipur	2005	82.00

Industrial experience

TATA Power, Engineering division, Mumbai

May-Jul, 2011

Safety Project:

- Investigated safety aspects of the coal handling process and identified the most hazardous zones
- Proposed construction of bridge on both sides for coal carrying conveyer belt to reduce human risks Supercritical Power Plant Project:
 - Researched alloys resistant to corrosion cracking and suitable for turbines at supercritical conditions
 - Conceptualized and implemented multi pass tube system in supercritical boiler furnace
 - Increased the heat flux which improved the overall efficiency from 32% to 40%

Godrej & Boyce, Tooling Department, Mumbai

May-Jun, 2010

- Analysed the function, design, and metallurgy of press tool and casting die
- Explored the problem of porosity of casting due to shrinkage of metal during solidification in detail
- Designed Press tool dies and engine parts using Solid Works and Pro-E

Innovate Edu, E-Learning startup

May-Dec, 2010

A startup to enhance the quality of education in engineering colleges through E-learning Solutions in classroom teaching

- Revamped class content with advanced planning, innovative teaching and presentation methods
- Conceptualized and prepared interactive presentations with novel animations for easy clarification of concepts and doubts
- Presentations currently being used in 3 different engineering college curriculum of Jabalpur

Community service

Teach For India, Selection Team, Mumbai

Oct-Dec, 2010

NGO- Working towards educating the under-privileged and bringing about educational equity Fellowship Program

- Played a vital role in the selection procedure for TFI Fellowship Program by defining parameters and structure of selection process
- Revitalized the volunteer recruitment and training program to better assist the Fellows in schools
- Successfully conducted recruitment of more than 100 fellows across Mumbai and Pune

Community Project:

- Involved in the project directed towards the betterment of educational structure in Indian society
- Created and maintained blog for updating various activities of the project

Help Age India, Jaipur

Aug-Sep, 2005

NGO-Working to raise resources to protect the rights of India's elderly

- Raised a fund of 12000 Rs. from around 400 people in 8 days
- Awarded special mention for creating awareness and assisting in raising funds

Academic Projects

Laser-Liga electron deposition

Nov-Dec, 2009

Researched and developed a method to fabricate polymer based arrayed micro needles

- Created a soft mould of borosilicate glass, using micro laser ablation
- Generated nickel hard mould through micro-electro deposition
- Used to economically mass produce parts with micro-scale features

Punching machine

Mar-Apr, 2011

- Designed and fabricated single degree of freedom input model using Geneva gear
- Developed a solid works model of the prototype
- Worked efficiently giving an equally spaced output at a frequency of 10Hz

Industrial Design project

Sep-Oct, 2009

- Designed a unique model of portable notebook stand using bamboo sticks
- Made the model compact so that sticks snap together to form a stand and fit together which can be packed in a bag
- Appreciated for simplicity and compactness of the model

State level project

Aug-Sep, 2006

- Selected among 4 students out of 400 participants in regional level to represent Rajasthan in
 National Science Exhibition organised by KV Sangathan
- Designed a working prototype of Wright Brothers model of first airplane and used airfoils to explain the principle of aerodynamics

Position of responsibility

Coordinator, Mood Indigo

Mar-Dec, 2009

- Led a team of 20 organizers, responsible for conceptualization and execution of two dramatic competitions, street play and one act play with a participation of 250 contestants
- Approached eminent dramatic personalities for judging the events

Extracurricular activities

Dance and Dramatics

- Performed a street play, Red Alert'2009 which was performed in 18 colleges and promoting Blood
 Donation Campaign 'KHOON CHALA' organized by Mood Indigo
- Represented IIT Bombay in One act play at Malhar'2009, cultural festival of St. Xavier College
- Performed one act play in freshmen orientation'2008
- Instructed at several institute level dance workshop of Salsa'2009

Sports

- Part of gold winning singles badminton inter hostel team
- Successfully completed Para-sailing program'2003 conducted by National Adventure Foundation Rajasthan Chapter

Hobbies

- Adventure sports enthusiast, love travelling, reading and dancing
- Professionally trained up to intermediate level in Salsa

Computer skills

- APPLICATION SOFTWARE- Solid Works , Pro-E, Photoshop, Flash
- PROGRAMMING LANGAUGE- C,C++, Matlab