



Gaurav Sharma
Mechanical Engineering
Indian Institute of Technology, Bombay
Specialization: Computer Integrated Manufacturing

08D10042
Dual Degree (B.Tech+M.Tech.)
Male
DOB: July 10, 1990

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.39

Internships

National University of Singapore, Singapore

Autonomous Underwater Vehicle

May'11 – July'11

- Recommended **ABS Plastic** and **Polyurethane** as suitable materials for the nose part of the AUV
- Conducted **impedance tube** test to prove ABS Plastic to be a better option
- Modeled **sonar** and performed **CFD analysis** on it to minimize the loss of sound waves reaching it

Oil & Natural Gas Corporation, Mumbai

Modeling and Analysis of Offshore Structures

May'10 – June'10

- Modeled a 4-legged existing well-head platform (situated in **Bombay High**) using the drawings available
- Carried out **linear static wave analysis** and pinpointed the possible mode of failures of the platform
- **Remodeled the platform** to overcome those failures using proper dimensions and hydrodynamics

Position of Responsibilities

Cultural Councillor, Hostel 7

Leader of a team of **10 Secretaries** of different cultural genres

April'10 - March'11

- Utilized a budget of **INR 1,00,000** including initiatives like Music Room Soundproofing
- **Introduced** H7 Idol, Guitar & Drum Playing and Movie-Making workshops, Debate Sessions
- Organized preparatory **intra-hostel** competitions for each of 20 inter-hostel cultural championships
- Efforts led to **award winning** performances in 12 of them as compared to last years' 8

Social Secretary, Hostel 7

Worked towards making the hostel **most-happening** hostel by involving all the hostelites

July'09 - March'10

- Utilized a budget of **INR 25,000** in organizing events to promote interaction among hostelites
- **Introduced** Gaming Nights, DJ Nights & Movie Nights; organized all the Indian festivals

Coordinator, Mood Indigo'09

Leader of a team of 6 organizers

- Invited **3 DJ groups** of Mumbai for an event of DJ workshop; lasted for around 3hrs and attended by **300 students** of different colleges

Key Academic Projects

Wire EDM of Silicon Ingot

Guide: Prof. S. S. Joshi

Master's Thesis
May'12 - Present

- Designed and fabricated a platform to **rotate the silicon ingot** by an external motor
- Used above set-up to eliminate the accumulation of the removed material; minimizing abrupt wire breakage
- Mathematically modeled the **temperature profiles** for work-piece and tool
- Used the above temperature profile to find the material removal rate and kerf-loss of the ingot

Awards & Achievements

- Awarded **Hostel Organizational Color** for an outstanding contribution to hostel cultural scene as Cultural Councillor(2010)
- Recipient of **Appreciation Certificate** for being topper among 70,000 students in 8th Standard District Board Examinations (2003) by Honourable State Agriculture Minister on Independence Day
- Amongst the **top 6 students** among 200 applicants worldwide selected for summer internship (2011) in Acoustic Research Lab, National University of Singapore, Singapore.
- Amongst the **top 100** candidates among 15,000 applicants, selected for full scholarship programme for **Tata Jagriti Yatra-2011**

Extra Curricular Activities

- Awarded **Performing Arts Festival Color** for dramatics performance and contribution to production part in PAF-2011
- Secured **3rd** position among 28 entries in **Advertisement Making** Inter-Hostel General Championship; I was the singer of the title song of the GC
- Secured **2nd** position in **MechView**, a video making contest organised as a part of the annual festival **Radiance** of the Department of Mechanical Engineering, IIT Bombay in 2012
- Completed a year long NSO course on **synthesizer**-playing in my first year in IIT Bombay