RICHA BHUSAN | 12CH30025

Third Year Undergraduate, Department of Chemical Engineering

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ACADEMIC PROFILE

Year	Institute	Score
2012-Present	Indian Institute of Technology, Kharagpur	8.59/10
		(Upto Sem 5)
2012	D.A.V. Public School, Hehal, Ranchi	94%
2010	D.A.V. Public School, Hehal, Ranchi	10/10
	2012-Present 2012	2012-Present Indian Institute of Technology, Kharagpur 2012 D.A.V. Public School, Hehal, Ranchi

SCHOLASTIC ACHIEVEMENTS

- Co-authored and presented a conference paper in the field of Nanotechnology in CHEMCON 2014
- Qualified for the second level of Jagdish Bose National Science Talent Search 2012
- Awardee under SBI Incentive Program for Meritorious Students 2012-2017
- Second Runner Up (State Level) in National Science Seminar 2010 on Chandrayaan

POSITIONS OF RESPONSIBILITY

Student Head: Technology Transfer Group

2014- Present

- Student Initiative under Sponsored Research and Industrial Consultancy (SRIC), IIT Kharagpur
- Responsible for organising TEDxIITKharagpur 2015 to bring together inspiring personalities on a common platform
- Ideated, Structured and Executed IIT Kharagpur's exhibits at India-US Technology Summit 2014
- Launched TTG's official blog and Responsible for restructuring TTG's website
- Compiled details of 1354 Research and 482 Consultancy on-going projects in IIT Kharagpur
- Successfully organized Patent Drive 2014, which has already seen a submission of 100 abstracts
- Conducted 4 Department IP Seminars and Patent Drive Review Workshops
- Correspondent of the official newsletter of SRIC, TechInsight 2013

Student Mentor: Student Welfare Group

August 2014- Present

Providing able guidance and support to First Year UG Students to get them easily acquainted with the new campus life

GES Intern: Entrepreneurship Cell

2012-2013

- Publicised Global Entrepreneurship Summit 2013 in Delhi
- Managed event logistics. GES includes various case studies, workshops, knowledge camps and lectures from eminent entrepreneurs

RESEARCH PROJECTS & INDUSTRIAL EXPERIENCE

Electrically Tuned Oscillation of a Micro-droplet [Present] Guide: Prof. Sunando DasGupta, Department of Chemical Engineering, IIT Kharagpur	 Experimentally analysed wetting phenomenon of droplet under the application of electric field Reviewed previous researches on droplet spreading Currently investigating the Particle Mesh Ewald Method in GROMACS
Droplet Motion on Wettability Surface Gradient [May, 2014- July,2014] Guide: Prof. Sunando DasGupta, Department of Chemical Engineering, IIT Kharagpur	 Simulated the motion of self-propelled water droplets on wettability-gradient surfaces using molecular dynamics Derived MATLAB algorithms to study contact line friction coefficient Chakraborty, M.; Bhusan, R.; DasGupta, S., Physics of Dynamic Spreading Using Molecular Dynamic Simulation, presented at Chemcon 2014 Chakraborty, M.; Choudhary, A.; Bhusan, R.; DasGupta, S., Molecular Dynamic Simulation of Self-Propelled Droplets on Wettability Gradient Surfaces, manuscript under preparation
TATA Chemicals Limited [October 2013]	Attended the industrial trip to TCL organised by the department of Chemical Engineering, IIT Kharagpur and TCL, Haldia
Robotics Winter Workshop [December 2012] Kharagpur Robotics & Artificial Intelligence Group	 IEEE Certified Robotics Workshop Successfully constructed an autonomous robot which can function as a wall follower and can take sharp turns

SKILLS

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Engineering	MATLAB, GROMACS (Molecular Dynamics) , VMD	
Programming Languages	C, HTML, CSS, PHP	
Operating Systems	Windows, Linux	
Languages	Hindi, English, Sanskrit	
Miscellaneous	MS-Office, Adobe Photoshop	

CO-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Secured 2nd position in SRISTI Ideation Contest 2012, IIT Kharagpur
- Secured 2nd position in English Innovative Writing 2012, MT Hall, IIT Kharagpur
- Member of Ad Design, Case Study and Chemical-Innovation Group, SN Hall & member, Gopali Youth Welfare Society
- Miscellaneous: Web Coding, Debating, Dancing, Badminton