

Abhijeet Patel (07MF1021)

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EDUCATION

Program	Institution	%/CGPA	Completion
B Tech in Manufacturing Science & Engineering (Mechanical Dept.)	Indian Institute of Technology, Kharagpur	8.93	2011
XII (BIEC Board)	Science College, Patna	77%	2006
X (CBSC Board)	M.M.S.S Vidya Mandir, Bihar	95.2%	2004

ACADEMIC ACHIEVEMENTS

- Currently holding **Branch Rank 1**
- Received **JC Ghosh Memorial Award**, awarded to Branch Rank-1 (after 6 semesters)
- Because of excellent academic performance granted a branch change (after 1st year)
- Among top 10 in 12th Board examination (out of about 3,50,000 students)
- Merit Certificates – In Mathematics and Science for scoring 100% marks in All India Secondary School Examination (AISSE) – 2004

PROJECTS

1. **B. Tech Project (Undergoing)**- Under the guidance of Prof. M K Das, IIT Kharagpur (August.2010- till date)
 - Project Title: **“Computational Study of Laminar heat transfer downstream of a backward- facing step”**
 - Computational study by changing three principal parameters governing heat transfer in this geometry (channel expansion ratio ER, Reynolds No. Re, Prandtl No. Pr).
2. Project done under the guidance of Prof. P. K. Das at **IIT Kharagpur** (May, 2009- June,2009)
 - Project title-**“Reduction of flow-loss in a right angled pipe”**
 - FLUENT was used to model curvature walls along with the curvature valves in between the pipe
 - Various parameters like radius and length of arc of curvature, number and thickness of valves in between were optimized to get the best result
3. **KRAIG** (Kharagpur Robotics And Artificial Intelligence Group) – Winter Workshop (2008)
 - Design and fabrication of a robot **“Mechanical Wedged”**
 - Objective was to cross an arena having a wedge with inclination 45 degrees checking its skin from two pendulums which were oscillating over the wedge. After climbing the wedge, robot had to catch a swing and with the help of that swing it had to jump from a height of 60 cm and then land on fixed area provided

RELEVANT COURSES

- An Introduction to Financial Management
- Operations Research
- HSS Economics

INTERSHIPS/PROFESSIONAL EXPERIENCE

- Successfully completed a project at **Purdue University, USA** (May, 2010-June, 2010)
- Project title – **“Numerical study of evaporation heat transfer from complex 3D liquid menisci formed in capillary wick microstructures”**
- Generation of computational meshes for modeling evaporation from liquid meniscus in 3D porous structures
- Developed a Noble Geometric Wick Microstructure which had maximum evaporation rate and maximum thin film area as compared to earlier existent geometries

EXTRA-CURRICULAR/CO-CURRICULAR ACTIVITIES

- Member, organizing team of **“Brain of Bihar”**, the biggest quiz contest in Bihar
- Was able to gather funds nearing 80,000 INR and a participation of 800 students
- Responsible for data collection regarding livelihood problems in rural areas and cloth distribution in slums under the scheme organized by NSS, IIT Kharagpur