KAUSHAL KISHOR

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EDUCATION					
Year	Degree	University/School	CGPA/%		
2007-11	B.Tech in Manufacturing Sc. & Eng.	IIT Kharagpur	7.17/ 10 (Best SGPA= 9.08 , 4 th Sem)		
2006	C.B.S.E. (Science, 12 th Board)	Chinmaya Vidyalaya, Bokaro	90.0%		
2004	C.B.S.E. (10 th Board)	Chinmaya Vidyalaya, Bokaro	90.8%		

ACADEMIC ACHIEVEMENTS

Examinations & Scholarships

- Qualified Regional Mathematics Olympiad-2005, State Rank 03 (out of 500 selected students)
- Qualified Chhotanagpur Mathematical Society Olympiad (CMS)-2003
- Among top 0.42% in IIT JEE, 2007 (out of 400,000 candidates)
- Qualified National Science Olympiad twice: AIR= 41 (2003) and 129 (2005) 20,000 applicants
- Topped in CBSE 12th board in my school (out of 300 candidates)
- Chinmaya Award holder (100% scholarship in 11th & 12th standards)

Research Papers

- Designed Small scale Bio-mass Briquetting machine, used to get cooking fuel and generate electricity. **Reduced installation cost by 1/10** times. (P.K.Sinha Bio-Energy Centre, IIT Kharagpur)
- Qualified General Electric Edison Challenge twice (2009 & 2010): Group leader in both Case Study + Innovative Solⁿ challenge

INTERNSHIP/PROJECTS

B. Tech Summer Internship

TEGA Industries, Kolkata

May to July, 2010

- Pre Placement Offer from Tega Industries for the post of Engineer-R&D (among 2 out of 7 IIT-Interns)
- Best Product Design of a bicycle in the selection test attended by 80 Mechanical students, IIT Kgp
- Provided two designs with proper experimental proof and site testing. Both designs have been implemented by TEGA
- Increased the life of scrapers by 80%, efficiency by 15% and reduced labour cost by more than 50%
- Designed automatic uplifting of scraper blades, used to scrap conveyers, without increasing pressure on it

Edison Challenge 2009

G.E. (General Electric)

(Group leader of a team of 4)

- Submitted to P.K. Sinha Bio-Energy Centre and is being considered by Z.S. Associates for implementation
- Selected among the top 15 (out of 180) and appreciated at The John F. Welch Technology Centre, Bangalore, GE, India
- Provided energy solⁿ to an entire rural community of 1000 population. Model can be replicated to almost every village
- Being the group leader, supervised both the technical and the commercial model of the designed machine

Edison Challenge 2010

G.E. (General Electric)

(Group leader of a team of 5)

- Presently among top 10 national finalists, to be presented to GE, India in Dec, 2010
- Case study + Innovative technical solⁿ + Commercial/Implementation model (aimed to reduce Infant mortality in India)

RELEVANT COURCES UNDERTAKEN * italicized subjects are non-departmental • Machine Tools and Machining* • Heat Transfer • Transform Calculus • Manufacturing Processes (I, II) * • Thermo-Fluid Science • Operations Research • Computer Integrated Manufacturing* • Systems and Control Probability and Statistics • Non-traditional Manufacturing Processes* • Mechanics of Solids* • Total Quality Management • Robots and Computer Controlled Machines* Mechanisms and Machines* • Soft Computing (Genetic Algorithm)

POSITIONS OF RESPONSIBILITY

Position, Organization	Year	Key Achievements
Founding member of Dream IIT (Now known as IITians for Youth) • Event manager & Sponsorship Head, 2008 • Selector & Mentor, 2009-2010	Founded in July, 2008 by 7 students from IITKgp & IITB	 Conducted two days (6 hours each) workshop cum motivational cum counselling sessions in Bokaro (more than a 1000 participants), 2008. Managed Sponsorship of ₹2.5 lakhs & contributed equally in event execution Event followed by All India Telephonic Counselling conducted by Hindustan Times. Got token of appreciation from S.P. & D.C. (Bokaro) Successive years: -Provide online counselling for youngsters -Event has been spread to Patna & Jamshedpur by selected members -At present 27 members (recruited 10/year for 2 years)
Member of Kharagpur Robotics & Artificial Intelligence group- KRAIG Group Leader- National Science Congress	Since Oct, 2007 2003	 Organised Workshop, Dec-2008 on robot making (total 120 participants) Supervised a group of 6 to make a Wedged Robot, Winter Workshop, 2008 Made three autonomous robots in 1st year. One was a grid follower cum obstacle detector and other two were Robo-Relay Bots. Supervised a group of 4 students The project was selected to the state level

EXTRA CURRICULAR ACTIVITIES

Sports

- Basketball: Represented my Hall in **Silver Winning** Inter-Hall Championship, 2009.
- Been a member of National Sports Organization, Basketball for 2 years.

Community Engagement

- Conducted extensive surveys in the near by Villages, under P.K.Sinha Bio-energy Centre:
 - designed cheap incubators for medical care of infants
 - designed & implemented a model of smooth information flow using mobile phones, basically for medical help. Also helpful to the NGOs for easy technology transfer
- **Taught a batch of 45** underprivileged students to prepare for competitive exams, as the member of Dream IIT, May-June, 2008.