

AMIT SHUKLA | 06ME3203

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ACADEMIC QUALIFICATIONS

Year	Degree	Institution	%/CGPA
2010	Dual(B.Tech+M.Tech),Mechanical Engineering	IIT Kharagpur	7.47/10
2005	Class XII (CBSE)	K.V Rewa	85.6%
2003	Class X (CBSE)	Sainik School	89.2%

ACADEMIC ACHIEVEMENTS

- **GATE Scholarship** for the session 2010-11
- Won **MCM scholarship** given by IIT Kharagpur
- **All India Rank 965** in IIT-JEE 2006
- Scored **100/100** in Mathematics in Class X
- Qualified for **3rd level(final)**, National Talent Search Examination -2003 conducted by NCERT
- **Certificate of Merit** in Green Olympiad organized by the Ministry of Environment & Forest, Govt of India

SOFTWARE SKILLS

- Programming Languages: C, C++, Visual Basic
- Simulation Software: MATLAB, Fluent, Engineering Equation Solver, AutoCad

INTERSHIPS

- Transoft International, Fluidyn Software & Consultancy Pvt. Ltd, Bangalore (May'09-July'09)
 - Implemented 2-D modeling of **Magneto-Hydrodynamic effects** on liquid metal flow for high Hartman numbers using Computational Fluid Dynamics
 - Verified the simulation results with J C R Hunt's analytical results
 - **Redesigned** code for NSNT solver to incorporate the solution of MHD equations
- John Deere India Pvt. Ltd, Pune (May'08-July'08)
 - Worked on a **live project** for optimizing "Manpower & Capacity Planning" for the new JD plant
 - Developed a File Protection Program using Visual Basic

KEY ACADEMIC PROJECTS

- CFD Modeling of Solid Oxide Fuel Cell (May'10-present)
 - Modeled the SOFC using advanced fluid mechanics & heat transfer
 - Discretized the governing differential equations using **Finite Volume Method**
 - Wrote MATLAB code for **pressure-velocity coupling** using SIMPLER Algorithm
- Designing and Manufacturing of a Rotational Viscometer (Sep'10-present)
 - **Designed** a Rotational Viscometer using the principal of Taylor-Couette Flow
 - Calibrated the Viscometer using Water as reference fluid
- Theoretical & Experimental investigation of Water Bell (Aug'09-Apr'10)
 - Conducted experiments on bell formation by varying Impactor diameter, jet velocity and Surface tension
 - Obtained **Unique shapes** of bells for lower values of surface tension, **which have never been reported**
 - Verified the experimental shapes with analytical ones and they were in fine agreement

POSITIONS OF RESPONSIBILITY

- Departmental Representative (2009-present)
 - Member of Undergraduate Advisory Committee to represent the 2006 batch
- Gardening Secretary, Meghnad Saha Hall of Residence (2007-08)
 - Responsible for the renovation of the garden, which led to **2nd prize** in Inter Hall Gardening Competition
 - Reduced the gardening budget **by 30%** compared to previous year
- Group Leader, Mountaineering Team, K.V Rewa (2004)
 - **Led a team of 30** for the mountaineering program to Solong, Manali.

EXTRA-CURRICULAR ACTIVITIES

- Top 4 out of 250 teams in 'Nirmaan', held in annual **National level** techno management festival Kshitij, 2009
- **Organized** an online Counter Strike tournament for the first time on Hall Day,2008
- **National Yoga Club**: Top 30 out of 850 selected for Yoga Team at IIT Kharagpur, 2007
- National Cadet Corps (NCC) of Indian Air Force, Annual Training Camp: completed successfully, 2006
- **1st Runner Up**, out of 120 teams in 'Khoj', the Annual Treasure hunt competition in IIT Kharagpur, 2006
- Received National Cadet Corps '**A-Certificate**'