

ABHIJEET SINDHU | 06ME3211

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EDUCATION

Degree	Institution, City	CGPA/ %	Completion
B.Tech. + M.Tech. <Mechanical>	Indian Institute of Technology Kharagpur	8.55	2011
Class XII <CBSE>	St. Sophia Senior Secondary School, Hisar	86.2 %	2006
Class X <CBSE>	K. L. Arya DAV Public School, Hisar	93.6 %	2004

SCHOLASTIC ACHIEVEMENTS

- Among **Top 0.1 %** in Science out of around **1 Million** students in class X, **Merit Certificate** awarded by CBSE
- Among **Top 0.18 %** in **AIEEE 2006** (AIR 891) out of around **490,000 students**, **State Rank 28** out of **30,000 students**
- Cleared IITJEE in **First Attempt** with **AIR 1393** out of around **300,000 students** in 2006
- **Medal of Appreciation** for performance in class X, awarded by DAV managing committee, New Delhi
- **Ranked 19th** in **State level Science Quiz** out of around **25,000 students** in year 2003
- Awarded Scholarship by MHRD for the year 2010-11 in acknowledgment of my academic performance

INTERNSHIPS

- **University of Massachusetts, Dartmouth, USA** [May-July,10]
Analysis of drying of sessile droplet with sugar solution for cell desiccation
 - **Enhanced resolution** of the droplet profile data by **10 folds** and reduced dried state parameter by **35%**
 - **Devised protocols** for determining the dried state of sugar solution in context of **cell preservation**
 - Approval of devised techniques/protocols for future research
- **Oil and Natural Gas Corporation Limited (ONGC), India** [May-July,09]
Exhaustive design of an upcoming high pressure gas well at Tripura asset
 - For the **first time**, a design by an intern was incorporated in actual well construction by ONGC, Tripura asset
 - **Designing** was done for a project having worth of around **₹ 50 Million**
 - **Highest Grade: 10/10** in Summer Internship Evaluation at IIT Kharagpur, 2009
- **Matsue National college of Technology, Japan** [May-July,08]
Worked on simulation and experiments of Vertical Axis Wind Turbine (VAWT)
 - Developed and tested a **prototype** of VAWT
 - Found NACA0021 to be optimum blade profile (**efficient by 18%**)

ACADEMIC PROJECTS

- **Master's Project:** Modeling of thermo-regulatory system of human body [2010-11]
 - Aim to make a comprehensive model using nodal technique, followed by control analysis
 - Till now carried out mathematical description of problem and started working on nodes
- **Bachelor's Project:** Modeling and operation analysis of Variable Displacement Swash plate Compressor [2009-10]
 - Found the correlation of different pressures in compressor with opening of control valve
 - Found various operation modes of VDSC and developed displacement control equation

POSITIONS OF RESPONSIBILITY

- **Team Leader of HVAC Load audit** of IIT Kharagpur campus [Jan – April,10]
 - Annual savings of **₹ 4.1 Million** by mitigating energy consumption, payback period **0.6 years**
 - Annual savings of **₹ 0.4 Million** by centralized cooling solution, payback period **2.4 years**
 - **Certificate of Excellence**, awarded by the **Director** of IIT Kharagpur
- **Chief Technical Analyst** of Ecozen Solutions (a startup in the field of consultancy) [Sep,09 - Present]
 - Provided **Sustainable Solution** (payback period of **1.2 years**) for improving Indoor Air Quality of *Crescent Foundry*
 - Working on **EcoLead** project (a revenue generation model from campuses)
 - Leading a team of **12 Analysts** at Ecozen Solutions
- Elected as **Mess Secretary** of RP Hall [2007-08]
 - Efficient operation of Mess Card resulting in semester-wise savings of **₹ 0.8 Million**

OTHER ACTIVITIES

- Fabricated a "Load Runner" in a team of 4 for **ROBOTIX**, Kshitij, 2007. Ranked **13th** out of 200+ teams
- **Finalist team** in **Nightshift** event, Kshitij 2009
- **Best Student** of Year 2005-06, St. Sophia School
- **Billing Auditor** of my hall's mess for the year 2008-09
- **Interest:** Great passion for speed. Follow Formula1 religiously