

TUSHAR MAHAPATRA

(+91) 9733741594, tusharmahapatra89@gmail.com

Academic Qualifications

| Year | Examination | Board/University | CGPA/% |
|------|----------------------------------|------------------|--|
| 2010 | B.Tech in Mechanical Engineering | IIT Kharagpur | 8.47 (upto end of 6 th semester) DR 13 |
| 2007 | ISC | ICSE | 89.83%, SAIL Scholarship |
| 2005 | ICSE | ICSE | 92.83% SAIL Scholarship |

Academic Distinctions

- ♦ All India rank of 1000 in **IIT JEE** 2007 out of 170,000 candidates.
- ♦ KVPY (Kishore Vaigyanik Protsahan Yojana) scholar from 2005-07 (among the top 50 students selected from all over India). 4th in UTSE (Uranium Talent Search Examination) among 50 000 students appearing throughout state and 30 students at camp.
- ♦ 2nd round INCHO qualified, 7th in state INMO, 2006.
- ♦ Qualified for admission to the Indian Statistical Institute (AIR 33)
- ♦ MCM scholarship (top 20% in the Institute), 2009

Selected Projects and Internships

- ♦ **B.Tech Project**- Experimental determination of stresses and forces at the knee joint during walking. GUIDE- Professor S K Roy Chowdhury. Mob.- +91 9434040977. Email ID- skrc@mech.iitkgp.ernet.in
- ♦ Worked on nocturnal cooling and feasibility of its implementation in Green Buildings . (sponsored Project, 2009-10). Project also involved use of innovative methods to estimate the night sky temperature. GUIDE- Professor M Ramgopal. Mob.- +91 9933000201. Email ID- ramg@mech.iitkgp.ernet.in .
- ♦ **Internship (May – July 2010)**- Study and improvement of Secondary Emission System at LD1 in **Tata Steel, Jamshedpur**. Critical issue of controlling the emission level to conform with industrial norms. **Priority 1** project. Redesigned the Hood, Fan and piping system. Reevaluating the process control and instrumentation in order to increase the productivity to the tune of **1 MTon** of steel. Consulted with global leaders in plant construction, planning and management such as SMS group and Siemens. Reduced investment in restructuring the equipment from 1.5 crores to 2 lacs by proposing alternative solutions.
- ♦ Internship at Larsen and Tubro and at Tata Jusco (Dept.- FMC, Jamshedpur, Project- Development of fuel flow control device during Braking. Implemented on cars at service centre of FMC) from May – July 2009. Summer training at Rourkela Steel Plant from May - June 2008.

Term Paper _____

- ♦ Wrote 3 term papers and 1 project in soft Computing as a part of Curriculum. Term papers were based on applications of soft computing to recently developing fields of chaos synchronization, parallel ankle rehabilitation robot and compact heat exchangers.

Position of Responsibility _____

- ♦ **Editor** of 'Spectrum' annual magazine of IEMS, Rourkela during 2005 – 2007.
- ♦ Part of Kharagpur FSAE Suspension team in 2009. Worked with Wingeo for suspension design.
- ♦ First to organize massive rally of 200 people demonstrating the effects of noise pollution in 2006.
- ♦ Currently working for starting the Department Fest of Mechanical Engineering Department.

IT- Proficiency _____

- ♦ C, C++, Java, Python, Java Script, HTML, Statistica, Wingeo, Fractal-Pro, Mathematica, Ansys and web designing.

Membership in International Societies _____

ASHRAE, ASME, ISME Member

Social service _____

- ♦ Worked with NGO called Sambhawami as a winter intern in 2009. Instrumental in helping Entrepreneurs in setting up firms at Kolkata. Worked in the field of Market Research (Rope Market in East India), Campaigning, Engineering consultancy and Supply Chain Management.
- ♦ Part of NSS in first 2 years at IIT. Involved in helping the Gopali Youth Society in teaching children from the nearby villages.

Extra Curricular _____

- ♦ State representative in Inter State Child Rights Congress-2001.
- ♦ Best Junior artist award by Cultural Academy, Orissa.
- ♦ Part of gold winning Coreo team of Patel Hall of Residence, 2009. Also a part of Hall Fine an applied arts team, Product Design team, Dramatics team.

Relevant Courses _____

- ♦ Mathematics III (PDE's , Numerical Methods);
- ♦ Engineering Entrepreneurship

Intrests _____

- ♦ Fine arts, Table Tennis, Singing, Music and Movie review writing, Astronomy.