



# SHOUVIK DAS

E-mail: [shouvikdas88@gmail.com](mailto:shouvikdas88@gmail.com), Phone: (+91) 9932899020

## EDUCATION

Year	Degree	Institution	CGPA/%	Rank
2006-present	Dual degree in Electrical Engineering M.Tech in Instrumentation Engg.	Indian Institute of Technology, Kharagpur	8.9/10	3 <sup>rd</sup> Dept.
2006	AISSCE (CBSE XII)	DAV Public School	88.4%	5 <sup>th</sup> of 120
2004	Secondary School Certificate (ICSE X)	Saint Lawrence School, Angul, Orissa	96.17%	2 <sup>nd</sup> district

## ACADEMIC ACHIEVEMENTS

- Qualified IITJEE-2006 with All India Rank 1076 and AIEEE-2006 with state rank of 14.
- Among top 500 students in the prestigious **KVPY** Fellowship Program in 2004.
- Certificate of merit for being placed within **top 1%** in the state in NSEP -2006 conducted IAPT.
- **All India rank of 165** in National Science Talent Search Examination (**NSTSE**) conducted by Unified council.
- Silver merit Certificate in **National Cyber Olympiad** in 2002.

## PROJECTS AND INTERSHIPS

- **Siemens Information Systems Ltd.**, Corporate technology division, Bangalore May 2010 – July 2010
  - Project involved **development of embedded system** for biomedical signal acquisition and processing
  - Suggested and demonstrated the usage of low cost, short-range wireless communication to monitor data
  - Achieved **reduction in resource utilization** (20%) and **increase in speed of operation** (5%).
  - Successfully installed the modules in new Siemens product.
- **Transformers & Rectifiers (India) Ltd.**, Ahmedabad May 2009 – July 2009
  - **Modeled** transformers and formulated a **novel working formula** for the calculation of busbar impedance
  - Formula validated and **incorporated** in the company design references
- **Neural Network based speaker verification system**, IIT Kharagpur Oct 2008 – Nov 2008
  - Designed a speaker verification system (based on MFCC) using Artificial Neural Networks
  - Project considered a **significant step** forward towards development of **voice-based personal security system**
  - Adjudged **3<sup>rd</sup> best project** work in a class of 110 students

*Relevant Courses Taken:* - Design and Analysis of Algorithms, Soft Computing tools in Engineering (Neural Networks), Probability and Stochastic Processes, Estimation of Signals and Systems, Programming and data structure.

## POSITIONS OF RESPONSIBILITY

Positions, Organization	Period	Key Achievements and Duties
<b>Captain, Inter-IIT Hockey Team</b>	Oct 2009-present	<ul style="list-style-type: none"> <li>▪ Selected and led a team of 16 out of 200 students</li> <li>▪ Won <b>2 Silver</b> medals in Inter-college Tournament – Shaurya, 2009, 2010</li> <li>▪ Initiated organization of coaching camp by Technology Students Gymkhana</li> </ul>
<b>Vice-President, Dept. of Electrical Engg.</b>	2009-10	<ul style="list-style-type: none"> <li>▪ Second representative of 400 students in the department</li> <li>▪ Organised industrial trip to Kolaghat Thermal Project, first since 2006</li> </ul>
<b>Sports Advisor, RK Hall</b>	2010-11	<ul style="list-style-type: none"> <li>▪ Responsible for performance improvement in inter-Hall sporting events</li> <li>▪ <b>Silver</b> in inter-hall Table tennis, only event of the Sports GC conducted</li> </ul>
<b>Captain, Hockey Team, RK Hall</b>	2009-10	<ul style="list-style-type: none"> <li>▪ Won <b>Silver</b> out of 10 halls, inter hall six-a-side Hockey tournament</li> <li>▪ Mentored 10 new players, 6 made it to inter-IIT probable's list-2010</li> </ul>
<b>Captain, Case Study, RK Hall</b>	2010-11	<ul style="list-style-type: none"> <li>▪ Responsible for mentoring, preparing and selecting a team of 10</li> </ul>

## EXTRA-CURRICULAR ACTIVITIES

- **Gold** in Inter-Hall Hardware Modeling out of 12 halls, 2010
  - Designed embedded circuit and wireless communication for low conflict tele-controlled surveillance robot
  - The product has been **prototyped for Indian Military**, proposal has been sent to DRDO.
- Won **2 Gold** medals: Inter-Hall Product Design'08, Inter-college Hockey- Shaurya'08.
- Won **3 Silver, 2 Bronze** medals: **Inter-IIT** and Inter-Hall **Hockey** Tournaments 2008-09.
- Subhraneel Memorial Award for **Best Outgoing All-Rounder** among 110 students, St. Lawrence School-2004.
- Voluntarily held a workshop for **promotion of robotics** among 250 college students at VIT, Mumbai.
- **Set up teaching centre** for 20 underprivileged students, now a National Service Scheme centre under literacy drive.