

Avneet Singh



EDUCATION

2007 onwards	B.Tech. in Electrical Engg.	IIT, Kharagpur	8.5/10
2006-2007	B.Tech Instrumentation Engg.	NSIT, Delhi	-
2006	XII (CBSE)	Ahlcon Public School, Delhi	88%
2004	X (CBSE)	Guru Harkrishan Public School, Delhi	86%

INTERNSHIPS

ITC Limited, Foods Division, Bangalore Corporate Summer Intern May'10–July'10

- Achieved a **30% increase** in productivity of candy to 19.5 tons/day from 15 tons/day
- Received a **Pre-Placement offer** based on performance during internship
- Net sales realization of **₹ 8 million per month** for the company
- **Implemented 8 proposals** and proved another 5 through trials

Ford India Pvt. Ltd., Chennai Summer Trainee Jun'09–July'09

- **Only student** selected out of **85** others to participate in collaborative program with Ford
- Consulted product development team & identified potent technologies for implementation in project at IIT

BHEL, Bangalore Summer Trainee July'09

- Calibrated the module standard used by BHEL against standard obtained from **Fraunhofer Institute**

PUBLICATIONS & SELECTED PROJECTS

Development of Photovoltaic Simulator Guide: Dean AA, Prof A. Patra May'09–Dec.'09

- **First author** of research paper in **IEEE conference** (ICPCES 2010)
- **Presented a Poster** at Advanced-VLSI consortium (appreciated by TI, National Semiconductor etc.)
- **Sponsored by Texas Instruments** as a part of Analog Design Contest

Elec. System of Formula Vehicle Faculty Adv.: Prof A R Mohanty Oct.'08–Feb.'10

- Secured **9th position out of 79 teams worldwide** in cost event in **Formula Student in UK-2010**
- **Sponsored by the SRIC** (Sponsored Research & Industrial Consultancy) at IIT Kharagpur
- Lead a team of 5 to develop electrical systems for **first ever formula race car** of IIT Kharagpur
- Member of Transmission Team - Designed and Implemented gear shift mechanism and chain coupling

Application Specific Converter Design Guide: Dean AA, Prof A. Patra Jan'10–April'10

- **First author** of research paper in **IEEE Journal**, under review
- Developed a novel methodology for application specific design of dc-dc converters

Quantum-inspired Differential Evolution Jan'10–April'10

- Co-author of research paper in International Conference (ICAC3-2011) (**Springer Link** Digital Library)

ACADEMIC DISTINCTIONS

- **Rank 1 in Department** with a CGPA of 9.34 during sophomore year at IIT Kharagpur 2008
- Was offered a department change after 1st year with **SGPA of 9.7** and 9.0 2008
- Was nominated for the prestigious Engibus Prize (**₹ 0.45 million**) by **Texas Instruments** 2009
- **Received 100% sponsorship by BOSCH - INDIA** to attend its “On Track Exhibition” 2009
- **Received 100% sponsorship by SAE - INDIA** to attend its International Congress 2009
- The congress focused on research & technologies relevant to **sustainable mobility**
- **Among top 0.1% candidates** in AIEEE with **Delhi State Rank 87** among 72,900 2007

POSITIONS OF RESPONSIBILITY

Founder & President Engineers Without Borders, IIT Kharagpur July'10–present

- **Leading a team of 56** in three verticals of operations, sponsorship and design
- **Collaborated** with local NGO's like **CRY, GYWS** to work on improving education in rural schools
- EWB chapter (non-profit society) works on capacity building in rural and backward communities

General Secretary Society of Electrical Engineering, IIT Kharagpur August'09–May'10

- Organized the **first ever industrial trip** by society which saw **participation from 70** students
- Launched the **first ever scholarship** offered by the society & Managed an annual budget of **₹ 90,000**

Other Positions

- TnP Representative, Member of Student Advisory Committee-(EE Dept.), Jt. Secretary Mess-(MMM Hall)

EXTRA CURRICULAR ACHIEVEMENTS

- Represented school in **District level TT & other championships (4 consecutive years)** 2002-06
- **Formulated Delhi Youth Charter on Climate** as a participant of the summit “DYSOCC” 2008
- Charter was presented to Mr. J.K. Dadoo, **Environment Secretary, Govt. of Delhi**
- Member of NSO Table Tennis & Hindi Dramatics Hall Team 2007-09