

ACADEMIC ACHEIVEMENTS

- Represented India at the Asian Physics Olympiad (APHO 2008) at **Mongolia** and received **Honourable Mention** for India. Only **three** students from the country were selected.
- Secured **All India Rank - 49** at **IIT JEE - 2009** out of 3,84,000 students all over India.
- All India Rank - **23** from over a million students in All India Engineering Entrance Examination - 2009 and was awarded CBSE scholarship by the Government of India.
- Awarded the **Kishore Vaigyanik Protsahan Yojana (KVPY)** fellowship for the period 2007-09.
- **Gold Medal** in International **Physics** and **Chemistry** Olympiad Orientation cum Selection camps.
- Awarded **Certificate of Merit** in International **Astronomy** Olympiad Orientation cum Selection camp.
- **INMO AWARDEE**-Selected for International **Maths** Olympiad camp conducted by National Board of Higher Mathematics (NBHM) & Homi Bhabha Centre for Science Education(HBCSE).
- Awarded **National Talent Search Examination (NTSE)** in 2007. Only 500 students are selected all over India.
- All India Rank - **3** AT NEST an Engineering test for undergraduates all over India.

PUBLICATIONS AND CONFERENCES

- Gave a presentation and published a paper titled “**Structural and Optical Characterization of Growth Pause Induced Ripening of InAs Quantum Dots in GaAs Heterostructures**” at the Electronic Materials Conference (E.M.C.) 2011 (Impact factor-1.3) at University of California, Santa Barbara. I was the only undergraduate and youngest student from India.
- My article "**A Pedagogical Study of Cooling of a Granular Gas**" has been accepted for publication in the **Resonance**, a journal for Science Education.

PROJECTS AND INTERNSHIPS

- **Embedded Systems Project, Prof. Deepak Phatak, IIT Bombay** [May 10 - July 10]
financed by Ministry of Human Resource Development, India.
The work involved developing Macros in Open Office Presentation and building a GUI to integrate it with a clicker device used for collecting classroom response. The macro was successfully developed using UNO - API.
- **National Initiative on Undergraduate Science (NIUS),** [ongoing]
Participated in the nurture camp under the NIUS program at HBCSE, TIFR – Mumbai. Doing a nius physics project on “**Carbon Nanotubes**” under project mentor, **Prof. Vijay A Singh**.
- **Website development for All India Football Federation (AIFF),** [July10 –Oct 11]
Developed the entire website of AIFF for Football league. The project involved using dynamic Mysql programming and Php.

EXTRACURRICULAR ACHEIVEMENTS

- **Coordinator** in the horizons department during **Mood Indigo** 2010-11, the cultural fest of IIT-B.
- **TA**(Teaching Assistant) for courses **MA-205** and **MA-207**.
- **First** position in **Electronics** quiz conducted by electronics club in Feb - 2010.
- Promoted to the rank of under-officer in **National Cadet Corps** and II nd rank in rifle shooting.
- Completed the **Leadership Development Program** conducted by Forum of Free Enterprise.

COURSES – Core and Non-Core

- Electrical Network Theory, Electronic Devices and Circuits, Introduction to Electronics and Electrical Systems.
- Complex Analysis, Calculus, Differential Equations and Linear Algebra, Quantum Mechanics.
- Computer Programming and Utilization, Signals and Systems, Digital Systems and Design, Analog Electronics and Lab.
- Compound Semiconductor Devices and Optoelectronics, Power Electronics, Computation in Power Electronics.

SKILLS

- **Operating Systems** : Windows and Linux.
- **Programming languages** : C++,SCILAB,MATLAB, Python
- **Web Designing** : HTML,CSS,PHP,MYSQL,JAVASCRIPT,.NET
- **Other software** : Eagle PCB layout editor, MS Access, Verilog ,Gnu Plot, Latex
- Experience of coding and using **AVR,8051**.