Murtaza Ali Abidini   09D07049

Electrical Engineering   **UG Third Year(Dual Degree)**

Indian Institute of Technology, Bombay   **Male**

Specialization: Communication & Signal Processing   **DOB: 03/04/1992**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.05
Intermediate/+2	Narayana Group of Institutions	Narayana Jr College	2009	97.00
Matriculation	Narayana Group of Institutions	Narayana Concept School	2007	84.50

SCHOLASTIC ACHIEVEMENTS

- Secured **A**ll **I**ndia **R**ank 277 in **I**ndian **I**nstitute of **T**echnology **J**oint **E**ntrance **E**xamination-2009.
- Secured **A**ll **I**ndia **R**ank 254 in **A**ll **I**ndia **E**ngineering **E**ntrance **E**xamination-2009
- Secured State Rank 18 in Engineering and Medical Common Entrance Test of Andhra Pradesh
- Got 225 All India Rank in Maths Marathon 2007
- Qualified for the FINAL stage of NTSE exam in 2007

ACADEMIC PROJECTS UNDERTAKEN

MINI UNIQUE IDENTIFICATION FOR IIT BOMBAY

Guide: Prof.D.B.Phatak,IITBombay   *(Oct 2009-Nov 2009)*

- Involved in developing software to assign a Unique Identity to every IIT Bombay student using fingerprint images stored in form of templates using C++ programming language
- Specifically worked for Registration of all the students and storing them into database

ALGORITHM DEVELOPMENT FOR MATHS PROBLEMS

Guide: Prof Debraj Chakraborty,IITBombay   *(May 2011- July 2011)*

- Worked the problem of Making an Algorithm to Calculate the Convex Hull of a   n-tuple Monomial
- Major part of the Project was based on Abstract Mathematics were we had to imagine a n-dimension vector space and try finding the minimum space in which the points corresponding to a particular monomial lied

RESEARCH INTEREST

- Graph theory and its Applications to Electrical Networks
- Network theory and Communication Networks
- Probability and Stochastic processes
- Electrical Machines and Power System
- Signal Interpretation and Processing

POSITIONS OF RESPONSIBILITY

Maint Councillor   (April 2011-Aug 2011)

- Was the member of Student Council of Hostel 4
- Led a 2 tier team handling 3 secretaries for hostel maintenance
- Took care of complete Infra Structure and General Maintenance of about 650 students in an area of about 10000 sqft
- Managed the budget of about 3 lakh rupees for hostel development
- Worked as **Maint secretary** for year 2010-2011

Coordinator, Techfest 2011   *(Jul 2010- Jan 2011)*

- **Techfest** is Asia's largest Science and Technology fest
- Has seen the smooth functioning of various modern day exhibits from across 12 countries in event **Exhibition** in **Techfest**
- Successfully brought the working prototypes of **NIF**'s (National Innovation Foundation) recognised village innovations to the event **Exhibitions** in **Techfest**
- Also worked as the **Organiser** for the event **Exhibitions** in **Techfest 2010**

EXTRA CURRICULAR ACTIVITIES

- Worked in a team to launch a new initiative in IIT Bombay through **NIF** (National Innovation Foundation) to develop village innovations by giving them as projects to students in IIT Bombay. Successfully floated the projects in the campus and also submitted the project reports to **NIF**
- Participated in the Inter Hostel **TECH General Championship** and helped Hostel to secure 2nd place in 14 hostels
- Got **TECH Special Mention** in Hostel for helping the Hostel in TECH General Championship by making bots and designs according to problem statements
- Got Special Mention for working in **National Service Scheme** for helping poor children by conducting help sessions for them and doing other social activities
- Enthusiastic in managing events and Teams
- Passionate in playing football

RELEVANT COURSES UNDERTAKEN

- **Mathematics**: Calculus, Linear algebra, Differential equations, Complex analysis , Probability and Random Variables, Stochastic Processes
- **Computer Science and Statistics**: Computer programming and utilization, Data analysis and interpretation
- **IDC**: Introduction to Industrial Design
- **HSS**: Economics, Environmental Science and Engineering
- **Core Courses**: Electrical Machines and Power Electronics, Power System, Analog Circuits, Digital Circuits, Signal and System, Digital Signal Processing, Communication System, Digital Communication, Communication Networks, Control System, Micro Processor, Electromagnetic waves