



Vinit Atal  
Electrical Engineering  
Indian Institute of Technology, Bombay

09007020  
UG Third Year (B.Tech.)  
Male  
DOB: 07/04/1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	8.98
Intermediate/+2	Maharashtra HSC	Garware Junior College	2009	89.00
Matriculation	Maharashtra SSC	Symbiosis Secondary School	2007	88.15

## ACCOLADES & ACHIEVEMENTS

- Awarded the **silver medal** at the **International Physics Olympiad** held at Merida, Mexico [2009]
- Was the **only student** in the country that year to qualify for all four of the following: [2009]
  - Indian National Physics Olympiad
  - Indian National Chemistry Olympiad
  - Indian National Maths Olympiad
  - Indian National Astronomy Olympiad
- All India Rank 90** in the IIT Joint Entrance Exam, touted to be the world's most competitive exam, from amongst more than 3,85,000 candidates [2009]
- Secured an **All-India Rank 7** and **Maharashtra State Rank 1** in the All India Engineering Entrance Exam (AIEEE), from amongst nearly 1 million candidates [2009]
- Received the AP grade for exceptional performance given to a select few students in the institute - wide 'Linear Algebra' course. [2010]
- Selected for a 12 day long intensive training program 'Catch Them Young' at **Infosys**, Pune for training in Visual Basic, Oracle SQL, project management, concurrent software development, etc. [2006]
- Offered a **cultural scholarship to Germany** by the Goethe Institute [2009]
- Awarded the **National Talent Search Scholarship** [2009]
- Meritorious performance in a plethora of competitive exams such as Kishore Vaigyanik Protsahan Yojana (KVPY), Regional Maths Olympiad, Homi Bhabha Science Exam, Cyber Olympiad, etc.

## PROJECTS

**Suzlon Energy** *The world's fifth largest wind energy company* [May '11 – July '11]

- Worked on an organizational transformation project along with the **Boston Consulting Group**
- Benchmarked the Operations & Maintenance Services (OMS) of its major competitors
- Developed from scratch, the brochure for the 'Suzlon Comprehensive Warranty Package' and presented the same at a workshop for global heads of several departments
- Implemented the change of P&L statement templates for the Brazil, India and Europe SBUs

**Kotak Securities** *Stock-broking arm of the Kotak Mahindra conglomerate* [December '10]

- Optimised the trend-recognition algorithm used by the **Proprietary Trading** division using signal processing and quantitative analysis techniques, which subsequently led to higher gains with the same downfall and implemented this trading algorithm using a Visual Basic program

**Prime Number Testing Circuit** *Guide: Prof. Sachin Patkar, IIT B* [March '11]

- Designed and assembled a circuit using **only primitive gates** and ICs to test whether a given three digit number is prime. An alternate implementation using VERILOG simulation on a CPLD board was also carried out

### **Glove controlled Helicopter** *Guide: Prof. Juzer Vasi, IIT B*

[May '10 – June '10]

- Built a wireless glove remote control to manoeuvre a miniature helicopter using an 8 bit microcontroller

### **Fingerprint based Mini-U.I.D. Project** *Guide: Prof. Deepak B. Phatak*

[October '09]

- Was the leader of a 20 member strong team developing a C++ code for database acquisition

### **POSITIONS OF RESPONSIBILITY**

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- As a **Teaching Assistant** for the 'Linear Algebra' and 'Differential Equations' courses, taught a class of 40 freshmen and evaluated their exams
- As a **Convener for the Literary Arts Club** of IITB, organised over 40 events in a span of 1 year, right from conceptualization, setting, publicity to compeering and managed 3 immensely popular blogs
- Worked as a **mentor to an underprivileged student** through 'Avanti Fellows', a student-run social enterprise in its first year of conceptualization
- Was the **chief editor** of the fortnightly 'Indian Express Young Expressions' and the annual Symbiosis School Magazine
- Correspondent for 'enSpace' and 'Insight', IIT Bombay's newsletters
- Co-ordinator for the 'Omniscience Quiz Fest' organised as a part of Mood Indigo-'10, Asia's largest inter-collegiate festival
- Organiser for the 'Robowars' event as a part of Techfest-'10

### **EXTRA-CURRICULARS AND HOBBIES**

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- Participated in and organised innumerable quizzes all over the country and achieved **podium finishes** in many prestigious quizzes such as the Sweden India Nobel Memorial Quiz, Times of India Fundamentals, British Council Greycells, IITB Physics Superbowl, Bournvita Quiz Contest, etc.
- Finalist at the Times of India **Spelling Bee** for 2 consecutive years
- **Ranked 5<sup>th</sup>** all over the country in the Mattel National Scrabble Championship, 2006
- Currently a nationally seeded Scrabble player
- Interests: Machine learning, Haiku, cryptic crosswords, search engines, backpacking, food and interior design blogs, cycling.

### **SKILL SET**

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- Proficient in C, C++ programming and hardware development languages VERILOG, VHDL
- Simulation softwares: SPICE, Eagle, Quartus
- Very well-acquainted with the Windows and GNU/ Linux operating systems
- Additional softwares: MATLAB, SCILAB, Adobe Photoshop, MS Office bouquet, LaTeX, GNU Plot, AVR, 8085 assembly, etc.

### **COURSES TAKEN** (*major courses taken as of November '11*)

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- Core courses: Probability & Random Processes, Microprocessors, Communication Systems, Power Electronics, Network Theory, Signals & Systems, Analog Circuits, Digital Systems, Intro to Electronics
- Computer Science courses: Computer Programming & Utilization, Discrete Structures, Data Structures, Machine Learning.