Sabareesh Nikhil C

Second Year B.Tech

Electrical Engineering

IIT Bombay

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Year	Assessment	Board/University	CPI/Grade/Percentage
2010-11	Cumulative Performance Index	IIT Bombay	8.83
2009-10	International Baccalaureate Diploma Programme	International Baccalaureate	38/42
2007-08	All India Secondary School Examination	ICSE	95.5%

Academic Achievements

- Secured **All India Rank 8** in IITJEE 2010, **All India Rank 1** in AIEEE 2010- B.Arch, **All India Rank 99** in AIEEE 2010-B.Tech, **All India Rank 11** in VITEEE 2010 and **All India Rank 31** in ISAT 2010

- Recipient of the prestigious **Aditya Birla Group Scholarship** and **OPJEMS** (OP Jindal Engineering and Management Scholarship): the only **Aditya Birla scholar from IIT Bombay** for the years 2010 - 14, and the **only OPJEM scholar from B.Tech 1st year, IIT Bombay** for the year 2010-11

- Secured **Silver Medal in the International Junior Science Olympiad** (IJSO) 2008, held at Gyeongnam, South Korea

- Recipient of the esteemed **A*STAR scholarship** offered by the **Ministry of Education, Singapore** in 2007

- **KVPY and NTSE Scholar**: Awarded the prestigious KVPY scholarship in 2009 and the NTSE scholarship in 2008

- Selected for the **National Chemistry Olympiad Camp** in the year 2010 and the **National Junior Science Olympiad Camp** in the year 2008 conducted by HBCSE, and was awarded a **gold medal** and a **Special Merit Certificate** respectively

- Secured **All India third rank** twice in National Science Talent Search Examination conducted by **Unified Council,** and **first rank in Andhra Pradesh** in State Level Talent Search Examination

- Secured **all India First position in Aptitude test**, and **all India level First position in Achievement test** in the year 2005, and **all India First position in Aptitude**, **all India First position in Mathematics** and **all India Second position in Science** in the year 2008, in the Academic Aptitude and Achievement Test conducted by Institute of Psychological and Educational Measurement and Council for Indian School Certificate Examination

- **One of 25 students** out of 50000 students selected as the **'elite group'** in the Indian Maths Marathon 2008

- **School topper** in both classes 10 and 12, with **95.5 % in 10th class ICSE**, and **40/45 points in 12th class IBDP**

- Awarded **Certificate of Merit** for being placed in the **top 1%** in the **National Standard Examination in Astronomy (NSEA)** in the years 2008 and 2010, **top 10%** in 2007 and 2009, and top 1% in **National Standard Examination in Physics** and **National Standard Examination in Chemistry** in 2009.

Positions of Responsibility

- **Teaching Associate for Calculus (MA 105)**: one among 10 students selected out of a batch of 800
- **Debating Secretary** of Hostel 6: the only one from the hostel for the year 2011-12
- **Mentor** at QEA Eduventures Pvt. Ltd., and at Avanti Fellows (mentor underprivileged students)
- **Editor** of the magazine for the Electrical Engineering Department – **Background Hum**
- **Convener, Electronics Club** of IIT Bombay, **Coordinator, Student Alumni Relations Cell** (SARC), and **Coordinator, Lecture Series, Techfest**
- **Head Boy** of Johnson Grammar School ICSE in the year 2007-2008
- **Captain, Throwball team,** Johnson Grammar School ICSE, year 2008-09
- **Group Leader** of a team of 14 : we developed game Bloxorz on C++

Key Projects

PULSED POWER SUPPLY (PPS):   *(May 2011 – July 2011)*

- **Internship** under the **Electronics Corporation of India Limited** (ECIL), Hyderabad
- **Studied and fabricated Copper vapour lasers**, and the related circuitry, to produce pulses of 9MW of time period less than 1 μs, and developed **advanced techniques to control and automate** the working by using PLCs (Programmable Logic Controllers)

THE STATISTICS OF BALL TAMPERING: *(July 2008 – October 2009)*

- **Shortlisted for the IRIS** (Initiative for Research and Innovation in Science) **national fair** held jointly by Intel and CII
- Evaluated numerically the effect **on the swing of a conventional cricket ball when tampered**

IIT BOMBAY SPORTS PORTAL ON FACEBOOK: *(May 2011-September 2011)*

- **Developed a Facebook application – Sports Matchmaker (Spatchaker)** to organize sporting activities in IIT Bombay, and built an effective portal to facilitate easy sports management
- Worked with FBML, PHP and MySQL extensively

OPTICAL MOUSE HACK IMPLEMENTATION: *(January 2011-May 2011)*

- **Reassembled components of an optical mouse to construct a handheld scanner** using Arduino Uno microcontroller as an interface

AN EVALUATION OF THE IMPACT OF THE ADVENT OF ZOOZOOS ON THE REVENUE GENERATED FOR VODAFONE INDIA BY THEIR VAS (VALUE ADDED SERVICES):   *(January 2010 – April 2011)*

- Undertook a **semi-quantitative analysis** of how far the **advertisements of Vodafone India featuring Zoozoos** went in promoting their **VAS (Value Added Services)**
- Wrote a **Research paper** on this subject of around 1600 words

Other projects such as **Optical mouse hack implementation to make a handheld scanner, Bloxorz game in C++, Sudoku and Tic-Tac-Toe games in Java, impact of pyrotechnic explosion on fertility of soil**

Extracurricular Activities

- **Blue-1 belt** in **Taek won do**: **Gold medalist** at district level (heavyweight category)
- **Language enthusiast:** acquainted with French, Japanese, Sanskrit, Bengali, Telugu, Hindi and English
- Secured **eighth in India**, and, **first in Hyderabad zone** in the **debates on environmental issues** conducted by the **Association of British Scholars** and **Tata Steel** in the year 2009
- Awarded **Special Mention certificate** for **NSS** (National Service Scheme) volunteer in the year 2010-11
- Honoured as **The Best Volunteer** in **Lead India-2020** conducted in the year 2006
- Secured the **first position at state level** in the **Scrabble competition** conducted by the Zygo Scrabble Club, and was chosen to **represent the state at the national level competitions**
- Awarded the **'Best Actor' award** in **dramatics** at school level in the year 2004
- Play the **Synthesiser,** and **actively play cricket, football, chess and scrabble;** enthusiastic in playing word games

Computer skills

Operating Systems: MS-DOS, Windows 98/2000/XP/Vista/7, Linux Ubuntu/Fedora

Programming and Web development Languages: C/C++, Java, Python, Q-BASIC, LOGO, PHP, MySQL, FBML, JavaScript

Applications Software: EAGLE, LTSpice, MatLab, NI LabView, Sage, Microsoft Office Essentials, Microsoft Publisher, Microsoft Frontpage, Adobe Photoshop, Adobe Dreamweaver, Web Studio

Courses undertaken (by December 2011)

- Electronic Devices and Circuits
- Network theory
- Introduction to Electronics
- Introduction to Electrical Systems
- Discrete Structures (Computer Science minor course)
- Data Structures (Computer Science minor course)
- Computer Programming and Utilization (C++ Programming)
- Signals and Systems
- Japanese
- Data Interpretation and Analysis
- Calculus
- Differential Equations
- Complex Analysis
- Further Differential Equations
- Linear Algebra
- Electricity and Magnetism
- A first course in optimization (Honours course)
- Analog Devices
- Digital Electronics
- Machines and Power Electronics

Lab Courses:

- Analog Devices
- Digital Electronics
- Machines and Power Electronics
- Chemistry
- Electronic Devices
- Measurements and Instrumentation
- Physics
- Computer Programming (C++)