



Vijayan Seshasayee
Electrical Engineering
Indian Institute of Technology, Bombay
Specialization: Communication & Signal Processing

08D07026
Dual Degree (B.Tech+M.Tech.)
Male
DOB: 16/08/1990

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.42

SCHOLASTIC ACHIEVEMENTS

- Received the prestigious **Temasek Foundation** Leadership Enrichment and Regional Networking Award ('11)
 - Granted a scholarship of **USD 5500 – 1 of 35** undergraduates worldwide awarded the scholarship
- Awarded the **National top 1%** certificate at **6 Olympiads**
 - Indian National Physics Olympiad ('08 and '07)
 - Indian National Chemistry Olympiad ('08)
 - Indian National Olympiad in Informatics ('08 and '07)
 - Indian National Astronomy Olympiad ('05)
- Received the **National Talent Search Examination (NTSE) Scholarship** awarded by NCERT ('06)
- Only undergraduate** selected as a TA – for topping a course in Electromagnetism with a **'100/100 score'** ('10)
- Young Genius Award, Navrachana School:** Awarded to the best outgoing student for all round excellence ('08)

PROFESSIONAL EXPERIENCE

ITC LIMITED – India Tobacco Division, Munger, India (May '11 – July '11)

Awarded a **Pre-Placement Offer (PPO)** for eliminating the risk of statute violations due to printing system faults

- Prioritized failure modes based on impact and implemented preventive systems, fast error detection and SOPs
- Kick-started and led the factory's **'Innovation Team'** – a 5-manager committee to brainstorm ideas and innovate
- Developed ITC's **first-ever** camera based packaging-error detection system – achieved **100% accuracy**
- Generated **INR 16 million p.a.** savings and improved **legal security** by preventing market entry of 'bad' products

SCHNEIDER ELECTRIC LIMITED – Sales and Marketing, Mumbai, India (Nov '09 – Jan '10)

- Developed a **pitch-book** and **customer management manual** to systematize pitches and client interactions
- Amended the commercial policy to eliminate loopholes – achieved **35% reduction** in processing & lead times

INTERNATIONAL EXPOSURE

NATIONAL UNIVERSITY OF SINGAPORE 'International Exchange Program' (Aug '11 – Dec '11)

Studied in the **University Scholars Program** – a **Harvard** founded multi-cultural school with 1200 international students

- Topped courses in 'Money and Banking' (218 strong class) and 'Computer Vision and Pattern Recognition'
- Felicitated by the **ASEAN Secretary General** for achieving **double** the number of required credits of social service
- Among the **top qualifiers** at the NUS-DBS case competition – invited to attend the **Singapore Leadership Forum**
- Member of the USP Basketball and Volleyball teams that **won** the NUS General Sports Championship

UNIVERSITY OF INDONESIA '9th Economix' – Sponsored by the **World Bank** and **NUS** to attend a conference themed 'Narrowing development gaps in ASEAN'; **Winner** of the **ASEAN development initiatives** case competition (Oct '11)

PRINCETON UNIVERSITY & BUSINESS TIMES 'New rules of the game' – **1 of 160** applicants worldwide placed on the top shortlist of delegates based on an essay 'Business trends and a game of Texas Hold'em poker' (Nov '10)

RESEARCH EXPERIENCE

IIT BOMBAY [supported by **NATIONAL INSTRUMENTS**] **'Cognitive radio networks'** (Jan '12 – present)

- Establishing the **first-ever** telecom base-station at IIT Bombay, expected to improve spectrum usage **twofold**
- Developing an **'Android App'** for **cost-free** short range communication without the use of a telecomm service

NATIONAL UNIVERSITY OF SINGAPORE 'Computer vision and pattern recognition' (Aug '11 – Dec '11)

- Developed a computer vision based **automatic vehicle navigation system** with safe traffic control capability
- Implemented optimal machine learning algorithms and demonstrated **98.7% accuracy** over a wide speed range

COMMUNITY DEVELOPMENT INITIATIVES

- Associate, Avanti Fellows** – Volunteer and advisor for the school and community outreach programs ('12)
 - Incorporated 10 schools and 2 significant closed communities into the program – **150 new applicants**
 - Started the 'Service Learning' initiative at IIT Bombay to cultivate youth involvement in social services
- Working as a full-time **English** and **Mathematics tutor** to underprivileged children in Powai ('09 – present)
 - Tutored **three '20-strong'** cohorts over the years, drafted curriculum and organized educational field trips
 - Developing a centralized volunteer recruitment portal for community service organizations in Mumbai
- Full time volunteer at the **National Cancer Centre Singapore** and **Singapore Disability Sports Council** ('11)
 - Led a team of 6 **touch therapists** (for HIV-AIDS patients) and managed the weekly airport publicity booth
- Lead Member, NavPrerna** – an initiative aimed at educating underprivileged children in Vadodara ('05 – '08)
 - Pioneered 7 'books & clothes' procurement drives and secured full-time participation of over **60** residents

Interests: Playing rock and blues on the guitar; reading non-fiction, classics and satire; watching television drama