

VIJAYAN SESHASAYEE

Birth date: 08/16/1990

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Degree	Graduation Year	University	Cumulative GPA
B.Tech (Honors) Electrical Engineering M.Tech Communications and Signal Processing	2013	Indian Institute of Technology Bombay	8.60/10.00

SCHOLASTIC ACHIEVEMENTS

- Received the prestigious **Temasek Foundation** Leadership Enrichment and Regional Networking Award ('11)
 - Granted a scholarship of **USD 5500** – awarded to **35** undergraduates worldwide
- 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)
- Presented the **Young Genius Award** – awarded to 1 of 750 high-school students for all round excellence ('08)
- Granted the **Teaching Associate** position for topping a course in Electromagnetism with a **perfect score** ('10)

PROFESSIONAL EXPERIENCE

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

Received a **Pre-Placement Offer** for eliminating the risk of statute violations in cigarette package printing

- 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**
- Won the NUS General Sports Championship as a member of the USP Basketball & Volleyball teams

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 TODAY 'New rules of the game' – Placed on the **final shortlist** (160/1200) among MBA candidates worldwide 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 Application**' for **cost-free** seamless communication over Generic Access Networks

NATIONAL UNIVERSITY OF SINGAPORE 'Automatic navigation using 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 7 schools and 2 significant closed communities into the program – **300 new applicants**
 - Started the 'Service Learning' initiative at IIT Bombay to cultivate youth involvement in social services
- Working as a regular **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
- Volunteered regularly 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, NavPerna** – 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