

Hutokshi Sethna

Electrical Engineering Dual Degree

Specialization: Communication and Signal Processing

Current CPI : 8.32

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 371** out of over 300,000 applicants in IIT Joint Entrance Examination 2007
- T.I.M.E Scholarship – Among 10 T.I.M.E students in India awarded INR XYZ for 4 consecutive years in IIT B
- Among 130 students in India to be offered the **DAAD-WISE Scholarship (€ 2475)** for internship in Germany
- Secured an '**AP grade**' for exceptional performance in the course "Introduction to Sociology"
- Awarded a **Certificate of Distinction** for "Diploma in Systems Management" from APTECH

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

IIT Bombay Aquatics Secretary

[Mar '09 - Feb '10]

Core Team Member of Institute Sports Council

- Reduced expenditure by 25% through effective fund management and developing a new budget
- Boosted numbers by 40% in Swimathon 2010(12hr swimming event) by introducing & encouraging faculty participation
- Conducted **first ever** water polo training camp in IIT B leading to the inclusion of **4 new players** in the institute team

Captain – Girls Aquatics Team, IIT Bombay

[Apr '10 - Present]

- Led IIT Bombay's **GOLD winning** campaign at the Inter IIT Championship (Won 57/60 points in the championship)
- Fostered coordination amongst swimmers resulting in a **New Record** for the fastest ever relay timing at Inter IIT

Mentor – Department Academic Mentorship Programme

[Jul '11 – Present]

- Among 2 selected from batch of 40 based on balanced academic achievement, extracurricular activities and mentoring skills.
- Guiding & mentoring students with academic problems to overcome emotional and social difficulties
- Conducted tutorial sessions and one-on-one interaction to help the academically weaker students

Member – Hostel Constitution Review Committee

INTERNSHIP EXPERIENCE

Institute for Product Engineering Karlsruhe (IPEK), Germany

[May '10 - Jul '10]

Project – Practical Application of Reinforcement Learning

- Researched practical applications of reinforcement learning in varied fields like medicine, economics, finance etc.
- Suggested better reinforcement learning techniques for control of the robotic arm also useful for other robots

ACADEMIC PROJECTS & SEMINAR

Load Balancing using Adaptive Relays: Dual Degree Thesis

[May '11 - Present]

Improvement coverage and throughput in cellular networks

- Modelled the system as a multi-variable **Markov chain** and formulated an **optimization problem** to minimize blocking probability in a cellular network
- Addressing needs relevant in the **Indian context** where we have an uneven user density in different areas

EXTRACURRICULAR ACTIVITIES & AWARDS

- **IITB Person of the Year – Sports** (08-09); Won 6 Gold, 11 Silver & 3 Bronze medals at the Inter-IIT in 4 years
- Created an Inter-IIT Record in 50m Backstroke Event (2009); Led team to create record in 4x50m Freestyle Relay
- Adjudged **Best Individual Swimmer** (Women) in Inter IIT Aquatics Meet – 2008
- Awarded **Institute Sports Color (1 of 9 awardees out of 6000 students)** for excellence in aquatics events 07-08
- Set maximum distance record by completing **24 km** by swimming **continuously for 12 hours** in Swimathon 2009.
- **Editorial team** member and active contributor to **InsighT**, the Institute Media Body
- **Volunteer**, Rakshak Foundation(U.S. based NGO): Designed a course on citizen's participation in nation building
- Grade V of Trinity College of Music, London in Solo Piano and Theory of Music (Distinction)