



Swanand Suhas Kulkarni
Computer Science & Engineering
Indian Institute of Technology, Bombay
Specialization: Computer Science & Engineering

09305901
M.Tech.
Male
DOB: 07/01/1987

Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2012	8.12
Undergraduate Specialization: Information Technology				
Graduation	University of Pune	Vishwakarma Institute of Technology, Pune	2009	79.47
Intermediate/+2	HSC (Maharashtra Board)	Fergusson College	2005	90.00
Matriculation	SSC (Maharashtra Board)	Abhinava Vidyalaya English Medium	2003	88.13

WORK EXPERIENCE

Research Assistantship under **Prof. Bhaskaran Raman** in **SYNERG (Systems and Networks Research Group)** at IIT Bombay (July '09 – Ongoing)

PUBLICATIONS

- Swaroop Roy, Rijurekha Sen, Swanand Kulkarni, Purushottam Kulkarni, Bhaskaran Raman, Lokendra Singh, "**WirelessAcrossRoad: RF based Road Traffic Congestion Detection**", The 5th Annual Workshop on Wireless Systems: Advanced Research and Development (**WISARD'11**), **COMSNETS'11**, Bangalore, India, Jan 4-5, 2011
- Rijurekha Sen, Pankaj Siriah, Bhaskaran Raman, Swaroop Roy, Swanand Kulkarni, Purushottam Kulkarni, "**Fighting Chaotic Road Congestion**", **Microsoft Research Techvista** Poster Session, 2011, Pune, 21 Jan
- Vishal Sevani, Lokendra Singh, Victor Chakraborty, Swanand Kulkarni, "**FRACTEL : A TDMA based WiFi mesh network with QoS support for rural digital connectivity**", **Microsoft Research Techvista** Poster Session, 2010, Bangalore, 22 Jan

M.TECH PROJECT & SEMINAR

- **Automation of Greenhouse Controller :**
(M.Tech. Project, Under the guidance of **Prof. Kavi Arya**) (May, 2011 - Ongoing)
 - Developing a Greenhouse Controller which will be cost effective, will have automated climate control and one can monitor it remotely via Android
- **Wireless Sensor Networks and its Existing Applications :**
(M.Tech. Seminar, Under the guidance of **Prof. Bhaskaran Raman**) (Jan'10 - April'10)
 - Conducted comparative study of different applications in Wireless Sensor Networks in terms of deployments, novelty in idea and kind of network used

COURSE PROJECTS

- **Measurement Study of 802.15.4 links in Outdoor and Indoor Environment** (Guide : **Prof. Bhaskaran Raman**)
 - Studied how different environments affects parameters like RSSI, LQI, Packet Loss to 802.15.4 link
 - Further extended this project for writing a Research Paper which got accepted in WISARD'11
- **Starting/Maximum Migration Bandwidth : Dynamic Approach** (Guide : **Prof Purushottam Kulkarni**)
 - Identified parameters which affects migration time and down time during Live Migration of a Virtual Machine
- **Farmer Assistant Robots** (Guide : **Prof. Kavi Arya**)
 - Used Firebird V robots which can assist farmers in day to day activities
 - Robot identifies position of fruit by Digital Image Processing and grabs it with the help of Arm Assembly
- **Online Shopping Mall** (Guide : **Prof. Siva Kumar**)
 - Designed a website using PHP for online shopping

- **Implementation of BitTorrent Protocol using Socket Programming** (Guide : *Prof. Kameswari Chebrolu*)
 - Developed a set of C programs which will perform operations of seeder, leecher, web server and tracker

BACHELOR OF ENGINEERING FINAL YEAR PROJECT

SAN Service Visualizer :

- Created virtual SCSI disks on SATA hard disks which will give response as per SCSI protocol
- This project was sponsored by **Calsoft Inc**

WORKSHOPS ATTENDED

- **“Introduction to Oracle 9i : SQL”** conducted by Oracle at Vishwakarma Institute of Technology
- **“NVIDIA CUDA Architecture and CUDA C Training Program”** conducted by NVIDIA at IIT

GRADUATE LEVEL TECHNICAL COURSES

Advanced Wireless Networks, Advanced Computer Architecture (Ongoing), Advanced Computer Networks, Embedded Systems, New Trends in IT(Virtualization and Cloud Computing)

GRADUATE LEVEL MANAGEMENT COURSES

Finance Account and Control, Managerial Economics, Marketing Management, Marketing Research (Ongoing), Legal Aspects of Business (Ongoing), Cost Account and Control, IT Project Management

TECHNICAL SKILLS

- **Areas of Interest** : Wireless Networks, Embedded Systems, Cloud Computing
- **Scripting & Programming Languages** : C, C++, Shell, HTML, PHP, VHDL
- **Tools Used** : Latex-Tikz, NS2, Xen, SVN, Eclipse, NetBeans
- **Operating Systems** : Android, Linux-Ubuntu, Windows, TinyOS

POSITIONS OF LEADERSHIP & RESPONSIBILITY

- **Overall Co-ordinator, Convergence 2012** :
 - **Computer Science & Engineering Department’s Technical Fest** which sees participation from industrial experts as well as students from engineering colleges across the country
 - Will be **leading** a team of **13 Managers (Core Team Members)** , **co-ordinators** and **organizers**
- **Member, Review Committee of Technopreneurship, AVENUES’11** (Sept’11 – October’11)
 - Responsible for identifying **best 12 Business Plans/Executive Summaries** submitted by students throughout the country in the event of SJMSOM, IIT Bombay
- **Alumni Secretary(PG), Computer Science and Engineering (CSE) Department of IIT Bombay** (July 2010 – April 2011)
 - Took the *initiative* of building an Alumni Database for Post Graduate Students
- **Marketing Manager (Core Team Member), Convergence 2011**
 - Dealt with companies regarding sponsorship
 - Managed a Team which was able to receive sponsorship of more than **Rs. 4,00,000/-**
- **Alumni Secretary, Hostel 12 of IIT Bombay** (July 2010 – March 2011)
 - Was associated with activities of **SARC (Student Alumni Relations Cell)** like US Phonathon, LSSD(Lost Soul Search Drive) etc

AWARDS & ACHIEVEMENTS

- Played Inter Engineering **National Level** Sports Meet(2008) in which I was **Captain** of Table Tennis team
- Was 1 of the **Top 6** players in the **Inter-IIT Table Tennis Camp** held in December 2010
- Received **“Player of the Tournament Award”** and **GOLD Medal twice** in PG Sports (Table Tennis), IIT Bombay
- Awarded **COLOUR** by Hostel 12 for securing **2nd rank** in the Institute Wide Inter Hostel **General Championship(GC)** Table Tennis Tournament held at IIT Bombay in 2010