



Area(s) Of Interest : Wireless Networks, Operating Systems, Algorithms

Educational Qualifications	Year	Board/Institution	CGPA*/%
UG (IV Year II Semester)	2009	IIT Roorkee	8.005
Twelfth Class	2004	Birla High School	82.800
Tenth Class	2002	Birla High School	81.600

*GPA on a scale of 10

INTERNSHIP

Telecom-ParisTech, Paris

Detection of Greedy Behavior in AdHoc Networks (May - July, 2008)

Proposed modifications over the DCF function of IEEE 802.11 standard, by selecting a novel scheme for calculation of Backoff values. Attained the capability to detect and classify greedy nodes in a adhoc networks. Advantages of the proposed scheme (Validated on NS2.29) over existing solutions are: 1) Counters Sender-Receiver Collusion 2) Does not require sender-receiver negotiation or dialogue 3) Almost no traffic overload 4) Lightweight and simple to integrate with existing 802.11 DCF. Developed insight into security issues of wireless networks.

PROJECTS

Masters Dissertation, IIT Roorkee

Energy Efficient Data Aggregation in Wireless Sensor Networks (Ongoing)

The aim is to propose an energy efficient model of data aggregation from sensors to a sink in wireless sensor networks (WSNs) that exploits correlation along the spatial, semantic, and temporal dimensions to eliminate redundancy and improve bandwidth utilization of WSNs.

Dual Degree Project, IIT Roorkee

Habitat Monitoring of Keoladeo National Park (KNP), Bharatpur (Aug - Oct, 2009)

Alarming loss of wetlands and the threatened bird population calls for meaningful and timely information on wetland habitats. Designed hierarchical wireless sensor network architecture for habitat monitoring at KNP. Introduced data filtering for energy conservation by suppressing transmission of repetitive and redundant data. Simulations on NS2 established 10% savings in energy, over existing similar networks, that will result in longer lifetime of the proposed network.

IIT Roorkee

Internet Protocol Multimedia Subsystem (IMS) (May - July, 2009)

Surveyed research literature and interpreted IMS as a framework that bridges the business models of telecom operators, internet companies and the media world. The IMS architecture, its related protocols (with special emphasis on QoS) and its benefits were examined in a seminar and the analysis was summarized as a white paper.

SKILLS

Computer Languages:

C, C++

Software Packages:

Network Simulator - NS2

Academic Achievements:

1)GMAT: 750(98 percentile globally). 2) IIT-JEE 2005: 1124
3)AIEEE - 2005: State Rank - 15. 4) MHRD Scholarship
5)Certificate of Merit for Application. 6) DCE-CEE 2005: 115

Additional Courses Taken:

Intellectual Property Rights, Data Mining, Economics,
Distributed Systems, Advanced Computer Networks

Languages Known:

English (S/R/W); Hindi (S/R/W); French (S/R/W);

EXTRA CURRICULARS**Student Placement Coordinator, Central Placement Team(CPT) (2007 - Present)**

2009-10: Leading the team of 8 students entrusted with the responsibility of placement of 1100+ students. Expanded CPT and allotted specific roles to increase accountability; introduced a new Placement Policy; 2008-09: Team leader of pitching team; held pitch talks with 150 companies; was in touch with 100+ companies to strengthen existing relationship; overall 70% placement with 35 of the visited 107 companies coming for first time. 2007-08: managed logistics for 22 companies; IIT Roorkee placement ranked 3rd in country.

Co-Founder and Joint Secretary, Disha (2007 - 08)

Established a cell to help rural students in academics and promote their vocational skills. Initiated rural employment generation programme and set up a candle making unit that provides additional income to a family. Organized survey for Annual Status of Education Report (2007) for Govt. of India, in 13 villages. Invited to report release ceremony graced by Mr Montek Singh Ahluwalia. Expanded from 20 to 80 members in a year. Laid guidelines to ensure stable functioning in future.

Entrepreneurship Development Programme (2008)

Attended 1 month workshop to hone entrepreneurial and soft skills. Learnt basics of management, finance and marketing involved in starting a venture; presented a B-Plan on completion of training.

Coordinator, Lord of the Bytes (2008)

Organized annual national level programming competition; revamped format of event and implemented newer publicity strategies. Recorded on campus participation of over 160 teams.

NSEs Certification of Financial Markets (NCFM) (2008)

Successfully completed Capital Markets and Derivative Market (Dealers) Module.

Cognizance, Annual Technical Festival of IIT Roorkee (2009)

First Prize in ByteMite, the shortest code contest.

Hobbies and Interests (2005 - Present)

-Community Service: Active Member of NSS. Certificate of Social Service by HelpAge India(2001).
-Traveling: Visited 10 countries in 3 continents. --Adventure Sports: Participant in Himalayan Explorer Club activities such as nature hikes, white water rafting, cliff jumping, and paragliding.
-Dancing: Proficient in western dance styles such as Salsa, Merengue, Cha Cha Cha and Jive.

PERSONAL DETAILS**Fathers name :** Chander Shekhar Dhawal**Date of Birth :** 21-05-1986**Gender :** Male**Category :** General**Permanent Address :** 1D Russel Apts, 12B Russel Street, Kolkata, India - 700071**Present Address :** F-131, Govind Bhawan, IIT Roorkee, Roorkee, India - 247667**Permanent Phone No :** 033-30288177**Phone No :** 09319045592**REFERENCES**

Prof. P.K.Jain
Coordinator, Training and Placement Cell
IIT Roorkee
pkjain.tpc@iitr.ernet.in
01332-285260

Prof. R.C.Joshi
Professor, Dept. of E&C
IIT Roorkee
joshifcc@iitr.ernet.in
01332-285650