

# SOUMYA DAS

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Webpage: <http://www.winlab.rutgers.edu/~soumya/>

## CAMPUS:

WINLAB  
Rutgers University  
73 Brett Road,  
Piscataway, NJ-08854  
732-445-0626

## HOME:

40A Cedar Lane  
Highland Park, NJ-08904  
732-729-7831

**OBJECTIVE:** Seeking a summer internship in wireless/ wired communication utilizing extensive background in IEEE 802.11 MAC, multimedia transmission over wireless networks, networking and network security.

## EDUCATION:

**Master of Science** in Electrical & Computer Engineering, Rutgers University, NB, NJ  
Expected Graduation Date: October 2004  
G.P.A. 3.88

**Bachelor of Engineering** in Electrical Engineering, June 2000  
Jadavpur University, Calcutta, India  
G.P.A. 3.89

## COURSEWORK:

Communication Network I  
Communication Network II  
Parallel and Distributed Computing  
Special Problems in Information and Network Security  
Advanced Topics in Communication Engineering

Stochastic Signals and Systems  
Communication Theory  
Digital Signals and Filters  
Linear Algebra and Applications

## EXPERIENCE:

### Graduate Assistant, WINLAB, Rutgers University (07/01/2003 – present)

- Video multicast over WLANs: Conducting research on ways to improve service quality and capacity using MAC multicast and error control techniques, Advisor Dr. Dipankar Raychaudhuri, WINLAB, Rutgers University.
- Network Tomography: Conducted research on ways to estimate link loss probabilities from end to end traffic measurements in a wired network, Advisor Dr. Wade Trappe, WINLAB, Rutgers University.

### Teaching Assistant, Department of Electrical Engineering, Rutgers University (09/01/2002 – 06/30/2003)

- Involved in teaching the undergraduate courses 'Probability and Stochastic Processes' in Fall 2002 and 'Principles of Electrical Engineering II Laboratory' in Spring 2003.

### Consultant, PricewaterhouseCoopers, India (07/03/2000-07/15/2002)

- Developed, tested and implemented software in Visual Basic, Oracle, SQL Server and Developer 2000.

## SOFTWARE SKILLS:

Operating Systems:	Windows, Solaris, Linux
Programming Languages:	C, Java, Visual Basic, PL/SQL
Front-end:	Developer 2000
Databases:	Oracle 8i, SQL Server7.0/ 2000
Simulation Tools:	MATLAB, ns-2, OPNET
Web Technologies:	HTML, FrontPage
Software:	Toad, Visual Source Safe

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## **ACADEMIC PROJECTS:**

Parallel and Distributed Computing, Fall 2003

- Implemented image histogramming and connected components labeling in parallel using MPI and threads.

Information and Network Security, Spring 2003

- Implemented client server communication using DES Algorithm in Java.

Communication Networks II, Spring 2003

- Designed a rapid deployment emergency infrastructure for a disaster site with multiple types of emergency personnel.

Communication Theory, Spring 2003

- Analyzed the performance of downlink power control algorithms in CDMA systems and suggested an improvement over an existing algorithm.

Communication Networks I, Fall 2002

- Developed traffic management and QoS control schemes for a CSMA/CA network in access point mode with Poisson and CBR traffic.

Stochastic Signals and Systems, Fall 2002

- Studied hypothesis testing and its role in a communication system.

## **HONORS:**

- Awarded university gold medal for standing first in order of merit at the Bachelor of Electrical Engineering Final Examination, Jadavpur University, 2000.
- Awarded scholarship by State Electrical Engineer's Association, West Bengal, India and Alumni Association of Jadavpur University, India.