NAME
Address ~ City, State Zip ~ Telephone: ~ Email

PROFESSIONAL INTERESTS	Wireless Networks	Network Security and Administration
	Satellite Communications	Programming
	Signal Processing	GIS

EDUCATION

Master of Electrical & Computer Engineering   GPA: 3.5/4.0
University of Delaware, Newark, DE
Thesis: *Detection of Agent Replay and Denial of Service Attacks in Wireless Networks*
Graduation: Aug. 2004

Bachelor of Electronics & Communications Engineering   GPA: 3.8/4.0
Osmania University, Hyderabad, India
Graduation: July 2001

COMPUTER SKILLS

Programming Languages:	C, C++ Java, Perl, Python, Visual Basic
Operating Systems:	Linux, Windows NT/Xp, Solaris, Unix
Applications:	MATLAB, Maple, LATEX
Security:	Java Cryptography, JVM Security, PKI, SSL
Web:	HTML, Dream Weaver MX, Flash, Fireworks, Photoshop
GIS:	ArcGIS, Arcview, Network, Spatial and 3D Analysts

ENGINEERING EXPERIENCE
May '04-Present

Intern, Delaware Center for Transportation, Newark, DE
Working as System Support Engineer for Applications of GPS system to Travel Time & Delay
Tasks include:
- Data Collection of Traffic on all roads in the State of Delaware
- Travel Time and Delay Measurement Analysis using GIS Software and Visual Basic
- Design of the Delaware Center for Transportation's website: www.ce.udel.edu/dct
- Authored a Technical report, "Application of GPS System to Travel Time and Delay Measurements"

Jan '02-May '04

System Administrator, E-Media Lab, University of Delaware, Newark, DE
Worked as Systems Administrator of E-media Lab at the Department of Electrical Engineering
Tasks include:
- Maintenance of the server and the systems (Hardware)
- Trouble shoot network related hardware and software problems
- Acquired experience in working with various Operating Systems
- Gained experience in working as a Team and Leading a dynamic group

RESEARCH EXPERIENCE
Jan '02-May '04

Graduate Research Assistant, University of Delaware, Newark, DE
Performed innovative research to eliminate security latencies in wireless networks
Tasks include:
- Design and Analysis of New Authentication Modules for Wireless Network
- Authored a paper titled, "New Authentication Tags for Wireless Networks"
- Gained experience in working in a wireless environment
- Gained sound knowledge in Programming in various languages like Java, Perl

INTERNSHIP EXPERIENCE
Sept '00-June '01

Project Trainee, Apollo Micro Systems, Hyderabad, India
Worked as a Project Trainee for the design of Voice Band Classifier Card Using ADSP
Tasks include:
- Design and implementation of Signal Analyzers using ADSP 21060
- Authored a Technical Report, "Implementation of Voice Band Classifier Card"
- Gained sound knowledge in Micro Processors and Micro Computing

PROJECTS AND PUBLICATIONS

PROJECTS

GPS & GIS
- Development & Analysis of Traffic Patterns through the State of Delaware using the Global Positioning System.
- Data Collection, Analysis and Grading of Level of Service Using the Aspen and ArcGIS software.
- Development of a GIS interface in Visual Basic for the automation of processing the data

WIRELESS NETWORKING
- Analyzed and designed *"Interplanetary Sensor Network"* a wireless sensor network communicating in deep space.
- Application of various design patterns of cellular & satellite communication systems.

WIRELESS SECURITY
- Detection of Denial of Service (DoS) and Agent Replay attacks in Wireless Networks
- Designed and developed a new Authentication Module for Wireless Networks using the message authentication codes.

OPERATING SYSTEMS
- Designed a Network Interface for an operating system-using internetworking and operating system concepts.

DIGITAL SIGNAL PROCESSING
- Designed and developed a *"Signal Analyzer for Voice Band"*, using ADSP 21060 processor project funded by DRDO, India.

PUBLICATIONS

TECHNICAL REPORT
- "Application of Global Positioning System to Travel Time and Delay Measurements 2004:, a technical report submitted to Delaware Department of Transportation, Dover, Delaware

CONFERENCES
- Charles Boncelet, (name), "Two new Authentication tags for Wireless Communications", accepted by *GLOBECOM 2003*.
- Charles Boncelet, (name), "Detection of Denial of Service and Agent Re play in Wireless Networks", presented at *MILCOM 2003*.

THESIS
- "Detection of Denial of Service and Agent Replay in Wireless Networks" Masters' Thesis submitted to the Department of Electrical and Computer Engineering, *AUG 2004*.
- *(Name), V.M. Rao, "Channel Estimation of Rayleigh Fading Channel"*, accepted and presented *ISTE Communications Symposium, New Delhi, 2001*.

Awards and Professional Recognition:
- Member of IEEE and the Delaware Academy of Science.
- Event Organizer of IGSA (Indian Graduate Student Association), University of Delaware
- Elected for the post of *The President*, ISTE Students' Chapter, India during the year 2000-2001.
- Elected for the post of *The General Secretary*, ISTE Students' Chapter, India during the year 1999-2000.
- Selected as *The Central Coordinator* for Navachaitanya '99, a national level technical symposium on the advances of science and technology in India.
- Facilitated as the *Best Student Editor* for the year 2000 by Fluxtron-an official magazine for the Department of ECE, Osmania University, India.