

## PRATIK DESAI

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- Objective:** To secure an internship in the field of Electrical and Computer Engineering.
- Education:** **Rutgers University, New Brunswick, New Jersey**  
Master of Science, Electrical & Computer Engineering. May 2006
- University of Mumbai, Mumbai, India**  
Bachelor of Engineering, Electronics & Telecommunications. May 2004  
Ranked among top 7% in the Department. Equivalent GPA: 3.6
- Relevant Courses:** **Rutgers University, New Brunswick, New Jersey**  
**Fall 2004:** Stochastic Signals & Systems, Communication Networks I, Digital Signals & Filters.  
**Spring 2005:** Communication Theory, Communication Networks II, Research Problems on Information & Network Security.
- University of Mumbai, Mumbai, India**  
Computer Communications and Networks, Microwave I & II, Mobile Cellular Systems, Digital Communication, Digital Signal Processing, Optical Fiber Communications, Microprocessors, Wave Shaping Techniques, Signals & Systems, etc.
- Research Interests:** Cellular Technologies (GSM, CDMA, UWB, OFDM), Wireless Networking & Communications, Wireless Security & Location Privacy, Location based services
- Research Experience:** **Electrical & Computer Engineering Dept., Rutgers University. Oct. 2004 - present**  
Dr. Marco Gruteser's (Asst. Professor) project on Location Privacy in 802.11 networks.  
Work involved acquisition and processing of data to be used as set of inputs to the experiments that were to be carried out. Experiments to commence soon.
- Advanced Electronic Systems Ltd., Mumbai, India. Aug. 2003 – May 2004**  
Developed a Microcontroller-based Video Matrix Switcher, used in CCTV Video Surveillance systems and successfully implemented Access Rights and Control on the developed 4 X 4 Video Matrix Switcher.
- Projects:** **Design of a Wireless Home Entertainment Network**  
**Simulation & Performance Analysis of a Token Ring Network**  
**Implementation & Performance Analysis of various ARQ schemes**  
**Digital Signal & Filters projects in Matlab**  
**Microcontroller based Digital Thermometer**
- Work Experience:** **Hardware Assistant, System Digital, Mumbai, India May-July 2003**  
Work included assembling and maintaining computers at the company.
- Personal Tutor Jan. 2002–Mar. 2003, Aug. 2003–Mar. 2004**  
Tutored Highschool & Freshmen students in Pre-Calculus, Calculus and Basic Electronics.
- Computer Skills:** **Programming:** Pascal, HTML, C, Assembly Language (8085,8086,8051), Java  
**Engineering & General Applications:** Matlab, Pspice, MS Office, Adobe Photoshop  
**Operating Systems:** MS-DOS, Windows 98/ME/2000/XP, Linux (Basic Usage)
- Hardware Skills:** Microcontroller & Microprocessor based systems, Communication circuits, Setup and Configuration of Networking Equipment, Computer Hardware assembly and troubleshooting.
- Seminars & Surveys:** - WiMax: IEEE 802.16 – An Overview - GPRS  
- Overview of Present Cellular Standards - OFDM
- Awards & Achievements:** Ranked # 1 in the department in sophomore and junior year.  
J.R.D. Tata Trust Scholarship for Academic Excellence for 2002-03.  
Member, College Student Council. 2002-2004.  
Rightback, College Soccer team. 2003-2004.