

YAGNESH C. TRIVEDI, PH. D.
Texas A & M University-Kingsville
Frank H. Dotterweich College of Engineering
Department of Electrical Engineering, EC 209
700 University Blvd., Kingsville, TX 78363
(361)-593-3316(O)
dr.yagnesh.c.trivedi@gmail.com

EDUCATION

- 1986 Ph. D. Electrical Engineering, Polytechnic Institute of New York University, Brooklyn, New York
Dissertation Title: Some Robust Techniques in Image Processing
Thesis Adviser: Dr. Ludwik Kurz
Major: Communications
Minors: Electronics and Computer Science
Thesis Title: Some Robust Techniques in Image Processing
Advisor: Dr. Ludwik Kurz
- 1975 M. S. Electrical Engineering, University of Southern California, Los Angeles, California
Major: Communications
Minor: Computer Science
- 1973 B. E. Electrical Engineering (5 Year Program), L.D. College of Engineering, Gujarat University, Ahmedabad, India,
Major: Power Systems

EXPERIENCE

- 2013 - Present Texas A&M University, Kingsville, Texas
Lecturer II
- Teach Optical Fiber Communications, Digital Signal Processing, Computer Storage Systems, Data Mining, Satellite Communications, Computer Processing of Speech and Music, Graduate Project, Graduate Thesis and Undergraduate Senior Design Project in Computer Science courses with MATLAB, and R computer simulations and laboratories.
- 2012 - 2013 Eastern Washington University, Cheney, Washington
Lecturer
- Taught digital signal processing, digital communications, signals and systems I, signals and systems II, and circuit theory Courses with computer simulations and laboratories.
 - Wrote experiments for the courses taught with computer simulations using MATLAB 2012, Cadence Orcad 16.5 PSPICE

and NI's MultiSim 12.0.

- 1995 - 2012 Reynolds, Smith and Hills, Inc., Jacksonville, Florida
Senior Consultant Electrical Engineer
- Designed, developed, installed and tested Triconex and GE 90-70 Series PLC based control systems for air and Nitrogen heating, ventilation and conditioning system for Atlas V rockets and optical fiber communication systems between buildings at Space Launch Complex 40 and 41, Air Force Station, Cape Canaveral, Florida for Lockheed Martin Astronautics Inc.
 - Designed Allen Bradley, Modicon, Siemens, Samsung and GE 90-30 Series PLC based control systems of two cranes for NASA at Hangar AF of Kennedy Space Center, Cape Canaveral, Florida.
 - Designed GE 90-70 Series PLC based control system for Rocket Launch Platform, Kistler Corporation, Woomera, Australia.
 - Entered and analyzed electricity, natural gas, fuel oil, Propane and water consumption data in Microsoft Excel files, calculated energy and cost savings and wrote quarterly and yearly reports for more than 300 Defense Commissaries at U.S. Army, Navy, Air Force and Marine Bases all over the world.
 - Upgraded lighting, refrigeration, heating, ventilation and air conditioning systems for saving energy and money at Defense Commissaries and U.S. Embassies all over the world.
 - Surveyed and upgraded Energy Monitoring and Control Systems for more than 130 buildings at Fort Benning, Columbus, Georgia.
 - Designed and developed Process and Instrumentation Diagrams (P&IDs) using AutoCAD, Ladder Logic and Human Machine Interface software.
 - Coordinated work with a team of electrical and mechanical engineers from George Santis Inc., Lockheed Martin Astronautics Inc., NASA, Kistler Corporation, Invensys Inc., Hensel and Phelps Construction Company and Reynolds, Smith and Hills, Inc.
 - Supervised and trained junior engineers and technicians.
- 2005 - 2010 University of North Florida, Jacksonville, Florida
Adjunct Professor
- Taught introduction to digital systems with Synapticad Verilog Hardware Description Language (VHDL) software and laboratory, introduction to power systems with PowerWorld computer simulations software, electronic circuits with ORCAD PSPICE computer simulations software and solid state electronic devices and circuits courses with Microsoft Excel computer simulations software.
- 2006 - 2007 Jacksonville University, Jacksonville, Florida
Visiting Assistant Professor
- Taught electrical engineering for non-electrical engineering

majors, physics II with calculus and laboratory, and advanced mechanics courses with computer simulations using ORCAD PSPICE and laboratories.

- 1994 - 1996 McDuff Electronics, Computers and Appliances Inc. owned by Tandy Corporation owned by RadioShack Inc., Jacksonville, Florida
Sales Associate
- Assisted customers and demonstrated communication, computer, electronics and electrical products and appliances.
- 1994 Florida State College at Jacksonville, Kent and North Campuses, Florida
Adjunct Professor
- Taught astronomy, physics I and II with calculus and earth science courses with computer simulations and laboratories.
- 1993 St. Johns River Community College, Orange Park, Florida
Adjunct Professor
- Taught physics I and II with calculus and chemistry courses with laboratories.
- 1992 - 1993 University of North Florida, Jacksonville, Florida
Lecturer/Assistant Professor
- Taught analog and digital communication systems, optical fiber communications, satellite communications, analog and digital electronic circuits, solid state electronic devices and circuits, signals and systems and electric circuits courses with laboratories.
- 1987 -1992 University of Florida, Gainesville, Florida's Satellite Program at the University of North Florida, Jacksonville, Florida
Lecturer/Assistant Professor
- Taught antenna theory, analog and digital communication systems, optical fiber communications, satellite communications, noise in communications systems and devices, analog and digital electronic circuits, solid state electronic devices and circuits, nonlinear electronic circuits, electromagnetic fields and waves, electric circuits, and network theory courses with laboratories.
 - Set up new state of the art laboratories for communications, electronics and electrical circuits theory courses.
 - Set up a new computer laboratory for PSPICE simulations for electronics and electrical circuits theory courses.
 - Wrote new experiment manuals for communications, electronics and electrical circuits theory laboratory courses.
 - Supervised and guided senior students for design projects in communications, controls, robotics, computers and electronics areas.
 - Advised students for their curriculum needs.

- Recruited students from community colleges in the state of Florida.
- Participated in university's committees for middle school and high school students' summer junior university education programs.

1982 - 1987 Polytechnic Institute of New York University, Brooklyn, New York
Teaching Fellow/Adjunct Professor/Tutor/Grade

- Taught electrical engineering for non-electrical engineering majors, analog and digital electronic circuits with SPICE simulations software and communication systems laboratory courses.
- Graded home-works for circuits, control systems and analog and digital electronic circuits undergraduate and graduate courses.
- Taught, supervised and managed the Freshman Learning Center for Physics, Chemistry, Mathematics courses.
- Supervised and guided students for senior design projects in communications, computers and electronics areas.

1979 - 1981 Gujarat Urja Vikas Nigam Limited, Vadodara, India
Deputy Engineer

- As a power line carrier communications (PLCC) network in-charge, operated, tested, maintained and repaired voice and data communications network connecting electricity generating stations, load dispatch center and power distribution substations all over the state of Gujarat.
- Set up an electronic laboratory for testing and repairing printed circuit boards (PCBs).
- Checked energy meters and wiring at high voltage (11 kV or more) consumer premises all over Gujarat state, India. Calculated electricity use and costs. Estimated electricity use and costs for slow meters, incorrect wiring or criminal mischief done in wiring or meter.
- Supervised and trained junior engineers and technicians.

1977 - 1979 Sensor Development Division, Remote Sensing Area, Space Applications Center, Indian Space Research Organization (ISRO), Ahmedabad, India
Engineer SC

- As a payload in-charge for a tethered balloon (looked like a Zeppelin and also called a Kytoon) platform project, researched, designed, developed, tested, installed and operated PCM/FM/PM telemetry, PDM/AM/AM command and automatic control systems.
- Received training at the Indian Space Applications Center (ISAC), ISRO, Bangaluru for the PCM/FM/PM Telemetry and PDM/AM/AM Tele-Command system modules of the spare of India's first satellite "Aryabhata".
- Set up new state of the art laboratory for the tethered balloon

project.

- Coordinated work with engineers and technicians from Physical Research Laboratory (PRL), Ahmedabad, Tata Institute of Fundamental Research (TIFR), Mumbai, Bhabha Atomic Research Center (BARC), Mumbai, ISRO centers at Indian Satellite Launch Site, Shri Harikota, Vikram Sarabhai Space Center (VSSC), Trivendrum, ISRO Satellite Center (ISAC), Bangaluru.
- Received national recognition for the success of the tethered balloon project in newspapers, radio broadcasts, television broadcasts and news bulletins shown before movies in movie theaters in India.
- Researched, designed, developed, installed and tested minicomputer interfacing hardware for Interactive Digital Image Processing Systems (INDIPS) project for processing images sent by a TV payload of India's second satellite "Bhaskara".
- Supervised and trained junior engineers and technicians.

1977 Government Polytechnic for Girls, Ahmedabad, India
Lecturer

- Taught antenna theory, electronics and communications courses with laboratories.

1976 Electric Control Gear Private Limited, Ahmedabad, India
Design Engineer

- Designed low voltage switchgear.
- Supervised and trained technicians.

1975 Receptors Inc., Torrance, California
Test Engineer

- Tested data communication equipment digital electronics circuit boards for remote traffic control systems.

1974 - 1975 T.T. Electronics, Los Angeles, California
Electronic Technician and Supervisor

- Assembled, tested and shipped electronic filters all over the world.
- Supervised technicians and assemblers.

1974 - 1976 University of Southern California, Los Angeles, California
Reader

- Graded student home-works for matrix theory and linear algebra, probability theory, random variables and stochastic processes and electromechanical energy conversion graduate courses.

RESEARCH PUBLICATIONS

- An experimental design approach to image enhancement, Yagnesh C. Trivedi and

- Ludwik Kurz, Correspondence, IEEE Transactions on Systems, Man and Cybernetics, Vol. 22, Number 4, July-Aug., 1992, pp. 805-813.
- Edge detectors using Greco-Latin squares, Yagnesh C. Trivedi and Ludwik Kurz, presented in NATO Advanced Research Workshop on Advances in Signal Processing for Non-Destructive Evaluation of Materials, University Laval, Quebec City, Canada, August 1993. This paper appeared in the book titled, “Advances in Signal Processing for Non-Destructive Evaluations of Materials” edited by Dr. Xavier Maldague published by Kluwer Academic Publishing Co., Netherlands, in March, 1994.
 - A class of robust image processors, Yagnesh C. Trivedi and Ludwik Kurz, Pattern Recognition, Vol. 27, No. 8, August, 1994, pp. 1111-1125.
 - Image restoration using recursive estimators, Yagnesh C. Trivedi and Ludwik Kurz, IEEE Trans. on Systems, Man and Cybernetics, Vol. 25, No. 11, November, 1995.

HONORS

- 1984 - 1986 Teaching Fellow, Polytechnic Institute of New York University
 1968 - 1973 Gujarat State Higher Education Scholar

AFFILIATIONS

- 1984 - Present Member, Institute of Electrical and Electronics Engineers (IEEE)
 1991 - 1992 Chairman, IEEE Jacksonville chapter, Jacksonville, Florida
 1990 - 1991 Secretary, IEEE Jacksonville chapter, Jacksonville, Florida
 1989 - 1990 Secretary, India Cultural Society, Jacksonville, Florida
 1987 - Present Life Member of Gujarati Samaj of North East Florida
 1968 - Present Life Member of Gujarat State Tennis Association, India

EXTRA-CURRICULAR ACTIVITIES

- 1993 -1994 Sang Hindi movie song duet with wife at Deepavalee Celebrations, India Cultural Society, Jacksonville, Florida.
 1988 - 1990 Learned Karate in evening classes at Mandarin Elementary School, Jacksonville, Florida.
 1988 - 1989 Produced, directed and wrote English language script of drama titled, ”Eklavya”, performed at Deepavalee Celebrations, India Cultural Society, Jacksonville, Florida.
 1988 - 1989 Conducted and won Runner-up prize for Tennis Tournament for India Cultural Society, Jacksonville, Florida
 1987 - 1988 Conducted and taught Gujarati language classes at University of North Florida, Jacksonville, Florida to U.S. born children of elementary, middle and High School for Gujarati Samaj of North East Florida.
 1981 - 1984 Member of Tennis Team, Polytechnic Institute of New York University
 1980 - 1981 Chess Runner-Up, Gujarat Urja Vikas Nigam Limited, Vadodara, India

- 1977 - 1978 Table Tennis Doubles Winner, ISRO, Ahmedabad, India
- 1968 - 1973 Tennis Champion, L.D. College of Engineering, Ahmedabad, India
- 1972 - 1973 Captain of Chess team, L.D. College of Engineering and Winner of the Gujarat University's Chess Championship.
- 1967 - 1968 Best Cadet, National Cadet Corps, M.G. Science Institute, Gujarat University, Ahmedabad, India
- 1965 - 1967 Chess Champion, Hu Tu Tu Team Captain, Kho Kho Team Captain, Unnati Vidyalaya, Ahmedabad, Gujarat, India
- 1956 - 1967 Elected class representative in elementary, middle and high schools, Gujarat, India
- 1964 - 1967 Won elocution competitions in high schools and represented high schools in Gujarat state competitions.
- 1956 - 1973 Cricket Team Captain, Elementary, Middle and High Schools, Gujarat, India

usa > New York > State University of New York Polytechnic Institute. State university of new york polytechnic institute - [SUNY poly], albany, new york. Albany, New YorkLOCATION. UniversitySCHOOL TYPE.Â Some popular majors in the university are Business, Information Science, Nursing, Mechanical Engineering Technician, Civil Engineering Technician, Accounting, Electrical Engineering Technician, Medical Records Administration, Computer and Information Systems Security and Psychology. The student-faculty ratio is 13:1 with an average class size of 18. In 1973, Polytechnic Institute of Brooklyn acquired New York University's School of Engineering and Science to form Polytechnic Institute of New York. Center for Advanced Technology in Telecommunications (CATT) established in 1983. In 1985, the school name was changed to Polytechnic University.Â Accreditation. All undergraduate and graduate programs at Polytechnic Institute of New York University are accredited by the Middle States Association. Undergraduate engineering programs are accredited by the Accreditation Board for Engineering and Technology (ABET). The undergraduate program in computer science is accredited by the Computer Science Accreditation Board (CSAB). New York : Wiley.720.72 GRO. Holt, G. (1997) A guide to successful dissertation study for students of the built environment. 2nd ed. Wolverhampton: University of Wolverhampton. 808.06669 HOL. Knight, A. & Ruddock, L. (eds) (2008) Advanced research methods in the built environment.Â London: Chartered Institute of Personnel and Development. 808.066658 HOR. Jankowicz, A.D. (2004) Business research projects.Â London; New York : Routledge. 808.06632 SIL. Psychology Beech, J. R. (2009) How to write in psychology: a student guide. New Caledonia New Hampshire New Ireland New Jersey New Mexico New Providence New South Wales New York New Zealand Newfoundland and Labrador Ngamiland Nghe An Ngounie Ngozi Niamey Niari Niassa Nibok Nicaragua Nichollstown and Berry Islands Nickerie Nicosia Nidwalden Niederosterreich Niedersachsen Nigde Niger Niger Nigeria Niigata Nimba Nimruz Ninawa Ningxia Ninh Binh Ninh Thuan Nitinsky Niue Nizhegorodskaya Oblast' Nkhata Bay Nkhotakota Nograd Nong.Â Accrediting Agency: Middle States Commission on Higher Education. Common name(s): Polytechnic Institute of NYU. Students & Faculty. Students. Financial aid at Polytechnic Institute Of New York University. Being a private university, NYU Poly tends to be slightly thrifty when it comes to doling out scholarships, so the chance that you'll end up with one isn't terribly high. Fortunately, though, you could always get yourself some Research or Teaching Assistantships which should keep your head above the water. Just. Jobs and placements at Polytechnic Institute Of New York University. In a nutshell, all the effort and hard work involved in first getting into, and then getting through two "grueling" years at NYU Poly, seems completely wo