

Faculty Curriculum Vitae

NAME: Pratap Reddy Talusani

POSITION/TITLE: Visiting Professor, Computer Science

OFFICE ADDRESS: TB313

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EDUCATIONAL BACKGROUND/TRAINING

Institution: University of Houston (Houston, Texas)
Dates: 01/1969 to 12/1970
Degrees Obtained: MS, Electrical Engineering-Computer Systems, 12/1970
Masters Thesis: Comparison of Describing Functions of a Non-linear System with Dead band (Chair: William P. Schneider.)

Institution: University of Houston (Houston, Texas)
Dates: 01/1970 to 12/1974; 01/1980 – 05/1985
Completed 48 additional graduate hours in Electrical Engineering and Computer Science

Institution: Osmania University (Hyderabad, India)
Dates: 06/1963 to 12/1967
Degrees Obtained: BS, Electronics and Communication Engineering, 12/1967
Senior Project: Pulse Width Modulator (Advisor: Umapathi Reddy)

Certifications: CCNA, CCNI, MCP, A+, NET+

RELEVANT TEACHING EXPERIENCE

2006 – Current Visiting/Adjunct Professor
Computer Science, Engineering
Texas Southern University, Houston, Texas

1982 – 2011 Professor and Department Chair
Department of Electronics and Computer Engineering Technology,
Houston Community College, Houston, TX

1995 – 2011 Adjunct Professor, College of Technology, University of Houston,
Houston, TX

1979 – 1980 Instructor, Electronics Engineering Technology,
Houston Community College, Houston, TX

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- 1977 – 1979** **Instructor**, Electronics Engineering Technology, Texas Southern University, Houston, TX
- 1969 – 1970** **Research and Teaching Assistant**, Electrical Engineering, University of Houston, Houston, TX

COURSES TAUGHT

Object Oriented Programming with C++ and Java
Programming Languages and Design
Network Design, Management, and Security
Routing and Switching, Wide area networks, Wireless Networks
Introduction to Artificial Intelligence and Machine Learning
Communication Circuits, Computer Networks, Data Communications
Computer Architecture, Embedded Controllers and interfacing
Electrical Circuits, Semiconductor Devices and Circuits
Linear Integrated Circuits, Digital Circuits

ACADEMIC SCHOLARSHIP/RESEARCH/CREATIVE ENDEAVORS

a. Publications

1. Farrokh Attarzadeh, Deniz Gurkan, Miguel Ramos, Mequanint Moges, Victor Gallardo, Mehrube Mehrubeoglu, Reddy Talusani, Shruti Karulkar, “NSF GRANTEE PRESENTATION: Results of an Innovative Approach to Learning via Peer-to-Peer Undergraduate Mentoring in Engineering Technology Laboratories,” Proceedings of the 2010 ASEE Annual Conference, Louisville, Kentucky. Abstract Accepted.
2. Farrokh Attarzadeh, Deniz Gurkan, Miguel Ramos, Mequanint Moges, Victor Gallardo, Mehrube Mehrubeoglu, Reddy Talusani, “NSF GRANTEE PRESENTATION: RESULTS OF AN INNOVATIVE APPROACH TO LEARNING VIA PEER-TO-PEER UNDERGRADUATE MENTORING IN ENGINEERING TECHNOLOGY LABORATORIES,” Proceedings of the 2009 ASEE Annual Conference, Austin, TX.
3. P. Reddy Talusani, Earnest G. Robinson, “Minicomputer Technology Curriculum in collaboration With Digital Equipment Corporation,” Presented at the 1986 Annual Conference of Texas Technical Society
4. P. Reddy Talusani, “Mathematical Computations for the Brown & Root Navigation and Positioning System,” Technical document T-1974-05-08, Brown & Root, Inc., May 1974

b. Industrial Experience

- **Brown & Root, Inc.**, *Communication Systems Engineer*: Developed software and algorithms for positioning system for off shore pipe laying using HP mini computers, developed drivers for plotter in assembly and machine language; Designed and implemented I/O interfaces. Designed HF/UHF communication systems and conducted propagation studies.

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- **Geodetic Surveys Company, *Manager of Research and Development:*** Developed algorithms and designed hardware and software for data acquisition, hydrographic and land seismic surveys. Developed data base software for Inventory of equipment
- **Photogravity Company, *Consulting Engineer:*** Interfaced Intel-based PC to satellite Doppler system and designed software for land and shallow water surveying, and gravity calculations.
- **Consultant,** Embedded micro Controllers; Computer Networks and Data communications systems design and configuration, software development for various companies

c. Grants and Awards

- PI, NSF ATE start up grant to enhance Biomedical Equipment Technician Program, \$50,000
- co-PI working on a curriculum development project “An Innovative Approach to Learning via Peer-to-Peer Undergraduate Mentoring in Engineering Technology Laboratories” funded by NSF in collaboration with the Team of Engineering Technology Professors at the University of Houston, \$199,985
- PI, Digital Equipment Corporation start up grant for Mini/micro Computer Technology Program, \$50,000
- National Merit Scholar

d. Other Significant Achievements

- ABET Evaluator
- Initiated ABET Accreditation for Electronics Engineering Technology Program in 1982 and obtained Accreditation and Reaccreditation. Last accreditation of the program was successful for 6 years with no additional reports in 2008