# Faculty Curriculum Vitae

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**NAME:** **Pratap Reddy Talusani**

**POSITION/TITLE:** Visiting Professorr, **Computer Science**

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## EDUCATIONAL BACKGROUND/TRAINING

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| **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<br>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

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| **2006 – Current** | **Visiting/Adjunct Professor**<br>Computer Science,<br>Texas Southern University, Houston, Texas |
| **1982 – 2011** | **Professor and Department Chair**<br>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**

Electrical Circuits, Electronic Circuits, Linear Integrated Circuits, Digital Circuits

Communication Circuits, Computer Networks, Data Communications

Computer Architecture, Embedded Controllers and interfacing

Object Oriented Programming with C++ and Java, Routing and Switching

Wide area networks, Wireless Networks

**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.

- **Geodetic Surveys Company,** *Manager of Research and Development:* Developed algorithms and designed hardware and software for data acquisition, hydrographic and land seismic surveys
- **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