

## CURRICULUM VITAE

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**BE,MS,FIE,FIETE**

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**Nationality** : Citizen of India  
**Date of Birth** : 12<sup>th</sup> January 1965  
**Languages Known** : English, Hindi, Telugu, Tamil

### EDUCATION:

<b>Institution</b>	<b>Place</b>	<b>Programme</b>	<b>Year</b>	<b>Grade</b>
<b>Vinayaka Missions University</b>	Salem, TN., India	<b>Ph.D – Electronics &amp; Communication Engineering.</b> Field: <b><u>Nanotechnology for Optoelectronics and Communication</u></b>	<b>Submitting thesis in Dec. 2008</b>	--
<b>University of South Florida</b>	Tampa, FL., USA.	<b>M.S. – Electrical Engg.</b> (Telecommunications & DSP)	1989	GPA 3.53/4.0
<b>NIT (REC)</b>	Nagpur, India	<b>B.E. – Electronics &amp; Power Engineering</b>	1986	I Division 67%

### MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS:

- 1) **Fellow** - The Institution of Electronics and Telecommunication Engineers (IETE), India.
- 2) **Fellow** - The Institution of Engineers (IE), India.

### PUBLICATIONS:

#### PAPERS

- 1) "Reconfigurable Photonic Networks", published in conference proceedings, 'National Conference on Latest Trends in Tele Communications', LTTC-2006, India.
- 2) "Nano Optoelectronic Component - Photonic Crystals"; published in the conference proceedings, 'National Conference on Recent Trends in Information Systems and Management', RTISM-2006, India.

- 3) "Universal WiMAX" published in the conference proceedings. 'National Conference on Recent Trends in Information Systems and Management', RTISM-2006, India.
- 4) "High Resolution Earth Observation by Optical Aperture Synthesis" published in the proceedings for the 'National Conference on Smart Communication Technologies and Industrial Informatics', SCTII-2007, NIT, Rourkela, India.
- 5) "IPTV - Technical Requirements" accepted for 'International Conference on Mobile, Ubiquitous and Pervasive Computing', ObCOM-2006, India.
- 6) "IP Telephony Networks - Blocking Spam" published in the proceedings for 'International Conference on Network Security and Workshop', ICONS-07, India.
- 7) "ERP – Business Processes with IP Communication", accepted for 'National conference on Computing for Nation Development', IndiaCom-07, New Delhi, India.
- 8) "Media Service by Mobile TV", accepted for 'National Conference on Computer Science and Communication Technology', NCSCT-07, India.
- 9) "Carbon Nanotubes – Its Manufacturing, Properties and Applications", accepted for publication in the National Conference, NCETA-07, Government Engineering College, Ajmer, India.
- 10) "Computational Nanotechnology", accepted for publication in the National Conference, NCETA-07, Government Engineering College, Ajmer, India.
- 11) "Energy Scenario from Nanotechnology", accepted in the 'National Conference on Recent Advances in Electrical Engineering', NCRAEE-08, Tumkur, Karnataka.
- 12) "Molecular Nanotechnology for Space System Architectures", published in the 'National Conference on Recent Trends in Information and Communications Technology', RTICT-08, Satyamangalam, T. Nadu, India.
- 13) "The Emission Frequency of Nano Dots", published in the 'International Journal of Materials Science' vol.2, No.1 (2007), pp 41-44 [ISSN 0973-4589].
- 14) "Carbon Nanotubes Grown by CVD – The Substrate Growth and Bundling", published in the 'International Journal of Materials Science' vol.2, No.3 (2007), pp 241-245 [ISSN 0973-4589].
- 15) "The CVD Gas Systems used for the Growth of Carbon Nanotubes", accepted for publication in the 'International Journal of Applied Engineering Research' [ISSN 0973-4562]
- 16) "The Growth of Carbon Nanotubes on TEM Grids", accepted for publication in the 'International Journal of Materials Science' [ISSN 0973-4589].

### **HIGHLIGHTS:**

- Guide for M.Tech Projects.
- On the Panel of Guides of IETE for B.Tech Projects.
- Editing a book in Nanotechnology titled "Introduction to Nanotechnology".

## WORK EXPERIENCE:

Employers Name	Nature of Organisation	Positions Held	Period	
			From	To
<u>Vignan Institute of Technology &amp; Science, Deshmukhi; Guru Nanak Engineering College, Hyderabad; Aurora's Engineering College, Bhongir; D.V.R. College of Engineering &amp; Technology, Hyderabad.</u>	Engineering College (B.Tech and M.Tech programs of JNTU, Hyderabad)	<b>Professor</b> (at VITS & GNEC) / Associate Professor (earlier colleges)  Present Basic of Rs. 18,650/- [Professor's Scale]	June 2000	Present
Kolej ITJ, Kuala Lumpur, Malaysia.	College, Degree program of University of Wales, UK	Faculty Member	June 2002	Aug. 2005
Al-Tayyar Communications, Riyadh, Saudi Arabia.	Telecommunications	Assistant Manager	April 1999	May 2000
Al - Hassan Equipment Company, Muscat, Oman.	Projects & Products in Telecommunications	Assistant Manager	Mar. 1997	July 1998
Blue Star Limited, Hyderabad, India; Ananth Technologies & ISRO, Hyderabad, India.	Electronic Modules used in Space Launch Vehicles	Manager	Aug. 1994	Dec.1996
University of South Florida, Tampa, FL., USA.	University	Teaching Associate	Dec. 1987	Aug.1989
Home Shopping Network - PSi, St. Petersburg, FL., USA.	Telecommunication Network Equipment	Hardware Design Engineer (R&D)	May 1990	Mar.1992

<b><u>Total Work Experience ~ 18 years</u></b> <b>Teaching - 9 years 8 months</b> <b>Research &amp; Development - 2 years 11 months</b> <b>Industry - 5 years 4 months</b>
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## EXPERIENCE:

**Present** – Vignan Institute of Technology and Science, Deshmukhi. (Dec. 2007 - Present)

**Position:** **Professor and HOD**

**Previous:**

**Guru Nanak Engineering College, Ibrahimpatnam, Hyderabad, India. (June 2006 – Oct. 2007)**

**Position:** **Professor, Department of Electronics & Communication Engineering.**

**Aurora's Engineering College, Bhuvanagiri,(Near Hyderabad), India. (Sept. 2005 – Apr. 2006)**  
**Position: Asst. Professor, (eqv. Associate Professor) Electronics & Communication Engineering Department.**

**D.V.R. College of Engineering & Technology, Hyderabad, India. (June 2000 – June 2002 )**  
**Position: Associate Professor, Electronics & Communication Engineering Department.**

Delivered lectures to the B.Tech and M.Tech students in the stream of Electronics & Communication Engineering (affiliated to JNTU) and conducted the laboratory courses & tutorials. Have been coordinator for the Jawahar Knowledge Center (JKC) and Campus Placement Mission (CPM) programs of Institute for Electronic Governance (IEG). Guided the final year students in their projects. The **subjects of interest include** Communication Systems, Communication Theory, Optical Fiber Communications, Analog Communications, Digital Communications, Electronic Devices & Circuits, Linear & Digital IC applications, Pulse & Digital circuits, Data Communications, Wireless Communications, Computer Networks and Electronic Measurement & Instrumentation.

**Kolej ITJ, Kuala Lumpur, Malaysia ( June 2002 – Aug. 2005 ).**

**Position: Faculty Member, Department of Electrical & Electronics Engineering.**  
**Degree Programme of University of Wales, UK.**

Deliver lectures to the students in the stream of Degree and Diploma in Electrical & Electronics Engineering and to conduct the laboratory courses & tutorials. The subjects included Electronic Engineering, Data Communications, Communication Media, Basic Electronics, Measurement & Instrumentation Technology, Analogue Electronics, Digital Electronics, Power Electronics, Electronic Computer Aided Design.

**Al -Tayyar Communications, Al - Tayyar Travel Group Co., Riyadh, K.S.A.**

**Position: Assistant Manager – Telecom ( April'1999 – May'2000 )**

The job role included the sale of EPABX telephone systems, billing systems, voice mail systems, facsimile machines & photocopier machines. The job role also included the service of facsimile machines, photocopier machines & allied electronic products. The tasks included the rent of mobile phone, pager, facsimile machine, photocopier machine, personal computer and the sale of Internet Service connection to the customers.

**Al - Hassan Equipment Company, Muscat, Sultanate of Oman.**

**Position: Assistant Manager; Profit Center Head & Service Center Incharge**  
**(March'97 – July'98)**

Incharge of the activities of Al- Hassan Equipment Company, a profit center on its own. The business activity comprised of projects & products in telecommunications in the field of satellite communications, switching, transmission, microwave links, broadcast telecommunications, optical fiber communications, radio systems, defence electronic products & allied electronic products. Incharge for the execution of the Trunked Mobile Radio System projects at Oman Aviation Services and Directorate of Civil Aviation & Meteorology, Oman and was incharge for the execution of the SIM cards project of General Telecommunications Organisation, Oman. Being a profit centre head, I was accountable for the budgeted targets to be achieved. The role included identifying growth markets and business opportunities. Having interaction with the customer for meeting with the requirement, for the sale of the products and for the projects. To set the objectives & targets for the team of Project Engineers/ Sales Engineers and keep the team motivated for achieving objectives & targets. To provide after sales service support and ensure customer satisfaction.

**Blue Star Limited, Secunderabad, India.**  
**(Test and measuring instruments Department - Profit Centre)**  
**Position : Area Manager - Sales (July'95 - December '96)**

Responsible for the sales of test and measuring instruments and electronic components for the region, being a profit centre on its own. Area of responsibility included planning, budgeting, control and accountability for the profit/contribution targets. Identifying growth markets and business opportunities. To set targets for the sales engineers and motivate the sales team to ensure high value solution oriented sales. To provide customer support and ensure customer satisfaction. To look into stocking of items & selling and sales through distributor network.

**Ananth Technologies, Hyderabad, India.**  
**Position: Manager - Systems (Aug'94 - June'95)**

Planning of the work load and scheduling for production and testing of signal processing unit, PCM telemetry systems used in space launch vehicles PSLV/GSLV. There was the technology tie-up with Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram, with buy back arrangement for the sub-assembly modules. Monitoring project time schedule, equipment orders & deliveries, developing new and alternative sources for the projects.

**Precision Systems Inc. / Home Shopping Network - U.S.A.**  
**Position: Hardware Design Engineer – R&D (May'90 - March'92)**

Dealt with the design of microprocessor based master control processor board. Co-ordinated the design of TI TMS320C26/C30 digital signal processor board. These boards were used in the total call processing system of the network for tele-shopping of M/s Home Shopping Network, USA. Monitored and expedited layout and design of printed circuit boards. Proficient in testing and trouble shooting of printed circuit boards. Hardware Design involved - Scanning, Multiplexing, Data Transmission, Memory interface, Programmable array logic circuit. Knowledge in optical fibre communication systems and telecommunication networks.

**University of South Florida, Tampa, Fl, U.S.A.**  
**Position: Instructor (Dec'87 - Aug'89)**

Instructed and lectured electrical engineering laboratory courses in the area of electronics, logic design and transmission lines.

**ALSTOM, Chennai, India.**  
**Position : Engineer Trainee – R&D (Aug' 86 - July' 87)**

Test and trouble shooting of microprocessor based disturbance recorder unit used as power plant equipment for recording the sequence of events, caused due to parameters such as over-voltage, under-voltage, current & voltage spikes.

**SKILLS & TOOLS:** (Computer Literacy)  
(PC based application packages)

Schematic Design	:	ORCAD, ULTICAP, EDWin
PCB Layout	:	PADS, MAXROUTE, ULTICAP, EDWin
Timing Analysis	:	Timing Designer (Chronology)
PLD Design	:	PALASM, CUPL
VLSI	:	MAGIC ( SUN Work Station)