

CURRICULUM VITAE

K.J.SOMASHEKARA_{M.Tech.}

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Academic Qualifications:

- M.Tech in Industrial Electronics, Jayachamarajendra College of Engineering, Mysore University, Mysore, 1985
- B.E, Bachelor of Engineering in Electronics Engineering, Bangalore University, Bangalore, 1981

Experience:

- 31 years of experience in Teaching and Research & Development and Telecom Regulation

Academic:

- Associate Professor and HOD, EEE Department, RR Institute of Technology, Bangalore, 18th July 2016
- Deputy Chief Engineer-R&D, ITI Limited, Bangalore, 01/07/2010 to 30/04/2016
- Senior Engineer-R&D, ITI Limited, Bangalore, 01/07/1995 to 30/06/2010*
*Worked as Senior Research Officer at Telecom Regulatory Authority of India (TRAI), New Delhi from 18/05/2005 to 31/03/2009, on deputation from ITI Limited
- Executive Engineer-R&D, ITI Limited, Bangalore, 01/01/1990 to 30/06/1995
- AEE-R&D, ITI Limited, Bangalore, 12/12/1986 to 31/12/1989
- Lecturer at Sri Siddhartha Institute of Technology – Tumkur, 22/05/1985 to 31/08/1986
- Lecturer at Siddaganga Institute of Technology – Tumkur, 20/11/1981 to 15/07/1983

Telecom Research & Development:

Design and development of various telecom products. Some of the important works are:

- Conventional wireless optical communication system for data transmission up to 1 kilometer range (all weather). This project was funded by United Nations Development Program (UNDP)
- Direct fiber coupled free space optical communication system for a range of 10 kilometers (all weather). Joint development with NITK, Surathkal
- ISDN Exchange (ISPX) for Bharat Sanchar Nigam Limited (BSNL)
- STM-1 / STM-4 Optical transceivers for Army Static Switched Communication Network (ASCON) for Indian Army
- Biometrics (Fingerprint) based Electronic Voting System

Telecom Regulation:

Worked as Senior Research Officer at Telecom Regulatory Authority of India (TRAI), New Delhi on deputation from ITI Limited for 4 years. Some of the important accomplishments are:

- Important Consultation papers/ Regulations/ Recommendations/ Study papers drafted by me are:
 - Domestic Leased Circuits Regulations, 2007- issued on 14 Sep 2007
 - International Telecommunications Access to Essential Facilities at Cable Landing Stations Regulations, 2007- issued on 7 June 2007
 - The Telecommunications Interconnection (Port Charges) Amendment Regulations, 2007- issued on 2 Feb 2007
 - Intelligent Network Service in Multi-Operator and Multi-Network Scenario Regulations, 2006- issued on 27 Nov 2006

- Consultation paper on Resale in International Private Leased Circuits (IPLC) segment- *issued on 22 Dec 2006*
- Recommendations for permitting usage of * and # in provisioning of value added intra-network services like USSD (Unstructured Supplementary Service Data) by Access Providers- *issued on 13 Apr 2006*
- Recommendations on Terms and Conditions for Resale in International Private Leased Circuits (IPLC) segment- *issued on 23 March 2007*
- Study paper on Next Generation Networks- issued on 15 July 2005
- Information paper on Telecommunication Port Charges- *issued on 1 Dec 2006*
- Preparation of performance monitoring reports of all fixed telecom service providers
- Examination of various issues raised by service providers
- Monitoring of issues relating to violation of license agreement by service providers
- Monitoring of issues relating to inter connection between access providers, national long distance operators (NLDOs) and international long distance operators (ILDOS)

Professional Training:

The following are some of the important training courses attended:

- 01-05 December, 2008- '*Spectrum Master Regulatory Class*' conducted by Inter Connect Communications, held at Bath, United Kingdom.
- 12-13 June 2007- Training course on '*Office Procedure and Maintenance of File*' conducted by Institute of Secretariat Training and Management, Government of India held at New Delhi.
- 06-07 December 2006- Ovum Executive Workshop '*NGN Cost Modeling*' held at Singapore.
- 25-30 September 2005- Training course '*Catalyzing Change: Strategies to achieve Connectivity and Convergence*' conducted by Technical University of Denmark held at Singapore.
- 29-30 April, 2004- In-house training on '*GSM & CDMA*' held at Bangalore.
- 16-18 Jan, 2003- Development program on '*Local Area Network*' held at Bangalore.
- 16-18 Jan, 1999- Training on '*ISDN Technology*' conducted by Hewlett-Packard Academy held at Bangalore.
- 20th December 1988 to 19th January 1989- One month training on '*Optical Communications*' at University of Bremen, Federal Republic of Germany under United Nations Development Program (UNDP) fellowship.
- 27th October 1988 to 19th December 1988- Seven weeks training on '*Computer Networks*' at University of Southern California (USC), Los Angeles, USA under United Nations Development Program (UNDP) fellowship.

Technical Publications:

- A research paper '*Review of National Numbering Plan (NPN 2003) in Multi-Operator and Multi-Network Scenario*' published on TRAI website during May 2009.
- Presented the paper '*Databeam: A wireless optical link to connect two LANs separated by 1 kilometer*' at '*NETWORKS-98*', international conference organized by IFIP, CSI and ICCA at Bangalore during 03-06 June, 1998.
- Presented the paper '*Wireless Optical Communication- a niche communication technology*' at national seminar on '*Wireless Technologies*' organized by Department of Electronics, Government of India during 03-04 August 1995 held at Bangalore.

Special Assignment:

- Worked as a coordinator in organizing 'Securenet-98'. A national seminar on Security and encryption aspects on internet/intranet with application for industries held during 07-08

January 1998 at Bangalore, jointly conducted by ITI, Department of Electronics, Government of India and IETE, Bangalore.

- Guided 10 batches of graduate and post graduate engineering students
- Conducted in-house training programs to engineers of R&D and production units of ITI Limited
- Instrumental in signing MoUs with R&D related institutes for joint technical development program in research
 - Indian Institute of Technology Jodhpur (IITJ)- Rajasthan
 - National Institute of Technology Karnataka (NITK)- Surathkal
 - International Institute of Information Technology Bangalore (IIITB)- Bangalore
 - Optiwave Photonics Limited- Hyderabad
 - New Horizon College of Engineering- Bangalore
 - REVA Institute of Technology and Management- Bangalore
- One of five member committee nominated by TRAI to recommend establishment of 'National Networking Commission' by Telecom Commission, Government of India during May 2006
- One of the three member committee nominated by ITI Limited to oversee the activities of ITI Data Center