

## OBJECTIVE

Wireless Communications is my passion. Devising optimal, yet practical, signal processing algorithms for Communication systems is my objective.

## QUALIFICATIONS

- Gold medalist in Telecommunications Engineering for my Univ.
- 3 years industry experience in Physical Layer design for WiMax (OFDMA+MIMO) and Rake Receiver (WCDMA+MIMO)
- Several publications in the field of Signal Processing
- Professional member of the IEEE and IEEE Signal Processing Society

## EDUCATION

2003—2007, Bachelor of Telecommunication Engineering from R. V. College of Engineering, Bangalore

- First Rank for Visveswaraiah Technological University
- 98.5-th percentile in the GATE entrance exam to IITs

2001—2003, Pre-University Education from Bhagawan Mahaveer Jain College, Bangalore

## WORK HISTORY

2009—to date, *R&D Engineer*, Nokia Siemens Networks  
Rake Receiver for 2x2 MIMO (Double TxAA), Channel Decoding of HS-DPCCH implemented.

2007—2009, *R&D Engineer*, Nokia Siemens Networks  
(a) Space Time Coding (STC) PHY layer implementation for Mobile WiMax (PUSC, 2x2). Involved in STC Encoder.  
(b) Spatial Multiplexing (SM) data mapping for Downlink PUSC implemented

Experienced in the usage of Agilent Signal Generators and Channel simulators (Propsim)

## PAPER PRESENTATIONS

- "*The selection of weighting functions for linear arrays using different techniques*", at IEEE conference on Emerging Trends in Electronics & Communication, at NCET Pune during April 2007.
- "*Direction of Arrival Estimation & Beamforming for Smart Antennas*" at the International Conference on Mobile, Ubiquitous, & Pervasive Computing, at Vellore during December 2006
- "*A Comparative Analysis of Antenna Beampatterns of Linear and Rectangular Arrays*" at the International Conference on Computer-Communications & Control, at Bangalore, during November 2006
- "*FIR Filter Design applied to Antennas*" at the IEEE-sponsored IMPULSE-2006 at Bangalore during November 2006

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## **THESIS PROJECT**

*Title* : Implementation of the Periodogram Smoothing of Noisy Signals Using TMS320C6713 DSK

*Summary:* The power spectrum of signal received by a mobile station is used to analyze the presence of AWGN. Noise cancellation algorithm based on Periodogram Smoothing implemented

## **CERTIFICATIONS**

- "TMS320C6000 Optimization Techniques" course certification by Varsity Division of Cranes Software International Ltd.
- "Advanced Signal Processing Technologies" course certification during IEEE-coordinated National Workshop during April 2006
- Certificate of Merit for securing 1st Place during Final Year students of R.V.C.E
- Certificate of Merit for securing 1st Place during First Year students of R.V.C.E

## **AWARDS RECEIVED**

- Special "Appreciation Award" for my contribution to WiMax Project at Nokia Siemens Networks in September 2008
- "Best Outgoing Student Award — 2007" for outstanding contribution to my college in June 2007
- Head Of The Core Committee of "CONNECT 2006" , a two-day state-level inter-collegiate technical fest of the Telecommunication Department, RVCE.

## **COMPUTER SKILLS**

- \* Familiar with both Windows XP and Linux (Ubuntu)
- \* Programming in C99, C++ Fortran 95 using GCC toolchain
- \* MATLAB, Simulink, CCStudio, LabVIEW and Mathematica
- \* Assembly programming in TMS 6713 and 80x86 (MASM32)
- \* Circuit simulation using PSpice and MultiSim
- \* V H D L programming in Xilinx and Altera's Quartus II

## **INTERESTS AND ACTIVITIES**

Blogging on my website : <http://www.bdsatish.in>

## **COMMUNITY SERVICE**

Charity for the school children for mid-day meal program at ISKCON Temple.

Blood Donation at Government hospitals for the needy people.