

# Satish Bysany D.

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**SUMMARY** Software developer for wireless communication systems.  
Experienced in signal processing for 3G and 4G.

**SKILLS**

- WCDMA, LTE-A
- C / C++ (gcc, gdb, valgrind)
- Git, SVN, Clearcase
- Texas Instruments DSPs
- Multicore programming
- L1 / PHY
- Python, Fortran
- Agile, OOAD
- Matlab, Mathematica
- FreeRTOS, OSEck, DSP/BIOS

**EXPERIENCE**

**Renesas Mobile Corporation** 03 / 2011 – Present  
Research Assistant

- System-level simulations for 3GPP contributions.
- Enhanced Inter-Cell Interference Coordination (eICIC) for LTE-Advanced.

**Nokia Siemens Networks** 06 / 2007 – 08 / 2010  
R&D Engineer (3 years, 3 months)

1. WCDMA Base Station, Layer 1
  - Implementation and unit testing of HSDPA channel coding for MIMO and Dual Cell.
  - General link-level simulation using Matlab.
  - Rake Receiver simulator in C.
  - Frequency-domain equalizer.
2. WiMAX Physical Layer
  - Self-tests (BIST, POST) in Embedded C / Assembly.

Worked in Finland (Helsinki, Oulu), China (Hangzhou) and India (Bangalore)

**EDUCATION**

**Helsinki University of Technology (TKK), Finland** 2010 – 2012  
M.Sc., Communications Engineering (majors in DSP)

**R. V. College of Engineering, India** 2003 – 2007  
B.Eng., Telecommunication Engineering

**AWARDS**

- Gold medallist (First Rank) in Bachelor's.
- "Appreciation Award – 2008" for contribution to NSN.
- "Best Outgoing Student Award – 2007" for R.V.College of Engg.

**LANGUAGES** English, Kannada, Telugu, Hindi, Finnish

**INTERESTS** Cycling, Sherlock Holmes, Sanskrit, Comparative philosophy

**SOCIAL** Username: bdsatish  
Find me in: BitBucket, GitHub , LinkedIN, Facebook, StackOverflow

**PUBLICATIONS**

- Several paper publications, including IEEE conferences. Details are available on the website: <http://bdsatish.in/about>
- Contributed to these 3GPP T-docs: R1-112798, R4-112966, R4-113084

**BACHELOR'S THESIS** *Implementation of the Periodogram Smoothing of Noisy Signals Using TMS320C6713 DSK*

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. Real-time SW coded for Texas Instruments' C6713 using Embedded C, Linear Assembly. Numerical simulations, including GUI, done using MATLAB.