GURURAJA S. R.

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OBJECTIVE

To contribute to the fields of mixed signal, RF and embedded system design through relevant employment

EDUCATION

Master of Science, Electrical Engineering, GPA: 3.4/4.0

University of Southern California

December, 2007

July, 2006

Los Angeles, CA

Bachelor of Engineering, Electronics and Communication, Result: 81.2%

Karnataka, India

PES Institute of Technology/Vishweshwaraiah Technological University

TECHNICAL SKILLS

Cadence Virtuoso, LTSpice, ExpressPCB, Magic, IRSIM, MATLAB, MPLAB IDE, C language, Embedded Systems Design

RESEARCH EXPERIENCE

Indian Institute of Science, Bangalore

Aug, '10 - Feb, '13

Studied towards a PhD before voluntarily opting out due to personal reasons at Indian Institute of Science, Bangalore

- Completed two courses Digital VLSI Circuits and Analog VLSI Circuits
- Implemented a 60 GHz Voltage Controlled Oscillator from a paper and a Phase Frequency Detector in Cadence Virtuoso
- Designed a 4 MHz second order loop filter and a system level model of a 30 GHz Phase Locked Loop with second harmonic extraction from Voltage Controlled Oscillator
- Implemented a system level model of a 30 GHz Phase Locked Loop in MATLAB/Simulink

University of Southern California, CA, USA

Oct - Nov

2007

Directed Research under Dr. Anthony F. J. Levi: Developed an ultra-small USB data acquisition module, a slight variation of which is currently being used in a course at University of Southern California – EE337: Engineering Micro and Nano-Systems taught by Dr. Levi

WORK EXPERIENCE

TM Tech, CA, USA Jan, '08 - Nov, '09

- Design, development, and implementation of an ultra-small, high-performance RF spectrum analyzer for interfacing to a mobile PC platform. Physical implementation included system design, design of PCB, electronic testing of components and integrated system, development of firmware, and user API
- Design, implementation and testing of subsystems for mixed signal and RF applications, including high sensitivity RF detectors, RF receivers, true-time delay beam formers, radar, and ultra-wideband radar subsystems

ACADEMIC PROJECTS

University of Southern California, Los Angeles, CA, USA

• Implementation of a compiled driven deductive fault simulator; Individual project	Dec, 2007
• MMIC (Monolithic Microwave Integrated Circuit) voltage controlled oscillator design; Team project	Apr, 2007
• Design of a switched capacitor band-pass filter; Team project	Apr, 2007
• Projects in RF Design; Individual projects	Jan - May
 Transimpedance amplifier Low Noise Amplifier (LNA) Current shared LNA and Mixer Dual band quadrature VCO Power amplifier 	2007
• Implementation of active band-pass filter based on Delyiannis-Friend topology; Team project	Dec, 2006

Indian Institute of Science (IISc), Bangalore, India

• Design of an integrated micro system consisting of a MEMS vibration sensor; Team project	Mar - Jun 2006
Toyota Kirloskar Motor Pvt. Ltd., Bangalore, India	2000

• Design and fabrication of a closed loop control system for process automation – monitoring the assembly of various components of a vehicle shock absorber; Team project 2006

EXTRA-CURRICULAR ACTIVITIES

Sports: Represented school and college in Table Tennis and Swimming competitions and won prizes Art: Guitar; Distinction awardee in drawing grade exam in 1998; Represented school in drama and won prizes Languages known: English, Kannada, Hindi, Tamil, Sanskrit

AFFILIATIONS AND ACHIEVEMENTS

- Member of IEEE (Institute of Electrical and Electronics Engineers)
- Obtained awards from PES Institute of Technology for securing distinction in all university examinations and have been among the top ten students in the department
- Obtained merit certificate for excellence in studies under National Scholarship Scheme from Education Department, Government of Karnataka, in 2000-2001