

Curriculum Vitae

Sarallah Alizadeh Arand

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EDUCATION

- 2008-2011** Sharif University of Technology, Tehran, Iran,
M.Sc. in Electrical Engineering (Microelectronic Circuits)
Thesis: “*Design & Implementation of a Programmable VCO for DVB-H Application in TSMC 0.18um Technology*”
Supervisor: Dr. Ali Medi. Email: medi@sharif.edu
- 2003-2007** Sharif University of Technology, Tehran, Iran,
B.Sc. in Electrical Engineering (Electronics)
Thesis: “*Indoor Infrared and IRDA Protocol*”
Supervisor: Dr. F. Behnia. Email: behnia@sharif.edu
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RESEARCH INTERESTS

- Analog/Mixed-Signal Design
 - Analog/Mixed-Signal/RF IC Design
 - RF Design
 - Digital Design
 - Wireless Transceiver Architecture
 - Baseband Design
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RESEARCH EXPERIENCES

- “*Physical Limits To Technology Scaling*”
Supervisor: Prof. Sarvari, Sharif University of Technology (2009)
 - “*Flow Sensors*”
Supervisor: Prof. Rashidian, Sharif University of Technology (2008)
 - “*Image Sensors and Digital Cameras*”
Supervisor: Prof. Rashidian, Sharif University of Technology (2010)
 - “*Indoor Infrared*”
Supervisor: Prof. Behnia, Sharif University of Technology (2007)
 - “*GSM and Wimax Systems*”
Supervisor: Saeideh Parsayee Fard, Telecommunication Company of Iran (TCI)
 - “*Gigabit Ethernet*”
Supervisor: Prof. Hossein Kalaj, Sharif University of Technology (2007)
 - “*Pressure Sensors*”
Supervisor: Prof. Varahram, Sharif University of Technology (2005)
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ACCOMPLISHED PROJECTS

- Design of a “UHF frequency RF Board for testing an RFIC”,(2012)
 - Design of a “Control Board to Command an RFIC”,(2012)
 - Having a UHF Band VCO RFIC Tape out, (2011)
 - Design of a “High-speed and Low-Voltage op-amp with $T_{settling}(to\ 1\%) \leq 10ns$ and $5mW$ power dissipation in CMOS $0.18\mu m$ with $1.8V$ Power Supply”, (2008)
 - Design of a “3-5 GHz MESFET VCO with 10dB output Power ”, (2008)
 - Design of an “8 Bit $\Sigma \Delta$ A/D with $BW=100KHz$ in CMOS $0.18\mu m$ with $1.8V$ Power Supply ”, (2009)
 - Design of a “Continuous time Current Mode Filter in CMOS $0.18\mu m$ with $1.8V$ Power Supply ”, (2009)
 - Design of a “Switched capacitor Filter with $f_{ck} = 100KHz$ and $f_{-3dB} = 10KHz$ in CMOS $0.18\mu m$ ”, (2009)
 - Design of a “Switched capacitor Biquad Filter $Q = 10$ and $f_0 = 50KHz$ in CMOS $0.18\mu m$ ”, (2009)
 - Design of a “Switch with Clock Boosting Circuit for Low-Voltage Circuits with Minimum Stress on MOS Transistors”, (2009)
 - Design of a “Band-pass 2.5 GHz gm-c Filter in $0.18\mu m$ CMOS”,(2008)
 - Design & Implementation of “A DC Motor Driver ”, (2007)
 - Design & Implementation of “A 1KHz NCO using AVR”, (2006)
 - Design of “A Secure communication link with 8051” (2005)
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SOFTWARE SKILLS

- **CAD Tools:** Cadence, ADS, HSpice, MW Office, Quartus, Protel, Modelsim, LEDIT, Eclipse, Code Vision, Max Plus 2, ORCAD, Proteous, Wincupl
 - **Programming Languages:** JAVA, MATLAB, C, VHDL, Assembly
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PAPER PREPARED FOR SUBMISSION

- Sarallah Alizadeh Arand; Ali Med; Seyed Mojtaba Atarodi, “A Programmable DVB-H VCO with Multiple Noise Filtering”, Submitted to *EEE Transactions on Circuits and Systems I*.

Abstract:

This paper proposes a novel UHF LC VCO for DVB-H applications with multiple noise filtering, which is implemented in a $0.18\mu m$ TSMC CMOS process. A new filtering technique will be introduced to reduce phase noise in a wide tuning range. This multiple noise filtering can reduce phase noise considerably compared to other reported VCOs. The measured single-sided phase noise is -140 dBc/Hz at a 1MHz offset from an 800 MHz carrier when the VCO core is drawing 3.8 mA from a 1.8 V supply.

HONORS

- Ranked 33th out of 400,000 participants in Iran's University Entrance Exam (2003)
 - Ranked 3rd in Electronics among more than 13,500 participants in Electrical Engineering M.Sc. Entrance Exam, (2008)
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TEACHING EXPERIENCES

- Teaching Assistant, “*Analog Circuits*”, offered by Prof. R. Sarvari, (2010)
 - Teaching Assistant, “*Analog Electronics*”, offered by Prof. A. Fotowat Ahmadi, (2010)
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WORKING EXPERIENCES

- Telecommunication Company of Iran (TCI), (Summer 2007)
 - Sharif Satellite, (Spring 2010)
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EXTRACURRICULAR ACTIVITIES

- Literature, History, Listening to Traditional Music, Football, Swimming
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REFERENCES:

- Dr. Ali Medi, Assistant Professor, ICDL Lab, Electrical Engineering School, Sharif University of Technology, Email: medi@sharif.edu
- Dr. Seyed Mojtaba Atarodi, Associate Professor, ICDL Lab, Electrical Engineering School, Sharif University of Technology, Email: atarodi@sharif.edu
- Dr. Ali Fotowat Ahmady, Associate Professor, Electrical Engineering School, Sharif University of Technology, Email: afotowat@sharif.edu
- Dr. Fereidoon Behnia, Assistant Professor, Electrical Engineering School, Sharif University of Technology, Email: behnia@sharif.edu
- Dr. Bijan Rashidian, Professor, Electrical Engineering School, Sharif University of Technology, Email: rashidia@sharif.edu
- Dr. Seyed Mohamad Hossein Alavi, Associate Professor, Electrical Engineering School, Sharif University of Technology, Email: malavi@sharif.edu