

Behzad M. Dogahe

PO BOX 248688, Coral Gables, FL 33124-8688

behzadvu@hotmail.com

- OBJECTIVE** To find a full-time job/internship as an Electrical Engineer in the fields related to Communication Systems, Computer Networks, Signal and Image Processing, DSP Processors, Digital Circuit Design (FPGA/VHDL).
- EDUCATION**
- Doctor of Philosophy, Electrical Engineering, December 2007
University of Miami, Coral Gables, FL. GPA: 3.86/4.0
 - Master of Science, Electrical Engineering, December 2004
Villanova University, Villanova, PA. GPA: 3.97/4.0
Thesis: Applications of Linear Time-Frequency Signal Representations to Watermarking and Over the Horizon Radar.
 - Bachelor of Science, Electrical Engineering, June 2002
Sharif University of Technology, Tehran. GPA: 16/20
Thesis: Simulation and Implementation of RSA Cryptography System on FPGA.
- EXPERIENCE**
- University of Miami Graduate Research Assistant
Coral Gables, FL January 2005 – Present
- Skills/Projects:*
- Knowledge of Information Theory, Probability and Stochastic Processes, Communication Networks and Protocols and Cross-Layer Design, Wireless and Mobile Protocols, Optimization, Digital Control Systems.
 - Simulation of the performance of TCP Reno/Vegas using NS-2 (Network Simulator).
- Center for Advanced Communications at Graduate Research Assistant
Villanova University August 2002 – December 2004
Villanova, PA
- Skills/Projects:*
- Knowledge of Digital Communications and Coding, Digital Signal Processing, Programming DSP Processors.
 - Adaptive Filters, Image Processing Algorithms, Watermarking and Data Hiding.
 - Design and implementation of Echo Canceller and IIR Filter using TI Code Composer Studio on TM320C54 DSP.
 - Design of a New Watermarking Scheme Using Image Segmentation and Time-Frequency Analysis.
- Electronic Research Center at Sharif Research Assistant
University of Technology September 2000 – May 2002
Tehran
- Skills/Projects:*
- Knowledge of Logic Circuit Design (Combinational/Sequential Systems), Hardware Design

- using CAD Tools, Microprocessors and their Assembly Language.
- Optimization and implementation of RSA cryptography system on FPGA.
- Design and implementation of DDS (Direct Digital Synthesis) signal generator capable of generating sine, square, and triangle waveform output using Altera FPGA and microcontroller.
- Implementation of various halftoning methods.
- Design and implementation of a digital metronome using 89C51 microcontroller.
- Preparing an interactive software package for simulation of PCM coding system as a kit for educational purposes.
- Design of a telephone touch-tone recognition system.

Micromodje Industries
Tehran

Hardware Designer
October 2000 – April 2001

Micromodje Industries
Karaj

Industrial Trainee
Summer of 2000

Skills/Projects:

- Experience with measurement instruments like logic analyzers, oscilloscopes, digital volt meters, signal generator, spectrum analyzer.

PUBLICATIONS

- B. Mobasseri, Y. Zhang, B. M. Dogahe, and M. G. Amin, “Designing robust watermarks using polynomial phase exponentials”, *IEEE International Conference on Acoustics, Speech, and Signal Processing, Philadelphia, PA, March 2005*.
- Y. Zhang, B. M. Dogahe, M. G. Amin, and B. Mobasseri, “Digital watermarking with two-dimensional chirps”, *SPIE Annual Conference, Denver, CO, August 2004*.
- Y. Zhang, M. G. Amin, B. M. Dogahe, and G. J. Frazer, “Time-frequency analysis for maneuvering target detection in over-the-horizon radars”, *International Symposium on Signal Processing and its Applications, Paris, France, July 2003*.
- Technical Report, “Classification and Discrimination of Sources with Time-Varying Frequency and Spatial Spectra”, *October 2003*.
- B. M. Dogahe, A. Alavi, and A. M. Pezeshk, “Simulation and Implementation of RSA Cryptography System (on FPGA)”, *The First Iranian Conference of Cryptography, Tehran, October 2001*.

HONORS

- Granted Research Assistantship for Graduate Studies at the University of Miami.
- Granted Research Assistantship for Graduate Studies at Villanova University.
- Ranked 2nd and Awarded Silver Medal in the National Physics Olympiad.
- Ranked 20th among more than 300,000 Participants in the Nationwide University Entrance Exam for Bachelor Degree.

COMPUTER
SKILLS

Programming Languages: C, C++, Pascal, Delphi, TCL, Assembly.
 Software Packages: MATLAB, SPICE, PROTEL, ORCAD, Microsoft Office, AUTOCAD.
 VHDL/FPGA Tools: ModelSim, Leonardo Spectrum, MaxPlusII.
 DSP Tools: Texas Instruments Code Composer Studio.
 NS-2 (Network Simulator), L^AT_EX.

Operating Systems: Windows, Unix/Linux.