

RÉSUMÉ

S. BEHDAD HOSSEINI

CAD Laboratory, ECE Department
Faculty of Engineering, University of Tehran
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RESEARCH INTERESTS

- Computer Hardware, including:
 - Design for Testability and High Level Digital Testing
 - Fault Tolerant Systems
 - Computer Architecture and High Performance Computing
- Artificial Intelligence, including:
 - Artificial Neural Networks
 - Smart Sensing and Data Fusion
 - Emotion Based Systems

EDUCATION

- *M.Sc. in Computer Eng. – Computer Architecture* Sep. 2007 – Sep. 2010
[University of Tehran](#), Tehran, Iran. GPA: 3.49/4.0 - 17.44/20 [Current]
Thesis Title: “Testability of Artificial Neural Networks Utilizing High Level Fault Models”
Advisor: [Prof. Zainalabedin Navabi](#)
- *B.Sc. in Computer Eng.* Sep. 1999 – Sep. 2002
[University of Isfahan](#), Isfahan, Iran. GPA: 3.16/4.0 – 15.78/20
Thesis Title: “Design and Implementing a 1-to-4 PBX System Using a Microcontroller”

PUBLICATIONS

- [1] Ali Shahabi, **S. Behdad Hosseini**, Hassan Sohofi, and Zainalabedin Navabi, “A Partitioning Approach to Improve Reconfigurable Neuron-inspired Online BIST,” *16th IEEE Int. On-Line Testing Symposium (IOLTS’10)*, July 2010. [[pdf](#)]
- [2] **S. Behdad Hosseini**, Ali Shahabi, Hassan Sohofi, and Zainalabedin Navabi, “A Reconfigurable Online BIST for Combinational Hardware Using Digital Neural Networks,” *15th IEEE European Test Symposium (ETS’10)*, May 2010, pp. 139-144. [[pdf](#)]
- [3] Najmeh Farajipour, **S. Behdad Hosseini**, and Zainalabedin Navabi, “Utilizing HDL Simulation Engines for Accelerating Design and Test Processes,” *6th IEEE East-West Design and Test Int. Symposium (EWDTS’08)*, Oct. 2008, pp. 371-374. [[pdf](#)]

HONORS

- **Rank 37** among 8000 competitors in national university entrance exam for graduate studies in computer field, summer 2007.
- **1st student** succeeded in attaining B.Sc. degree in 3 years at [University of Isfahan](#).
- **9th team rank**, [ACM/ICPC Regional Contest](#), West Asia Region, fall 2003.
- **10th team rank**, [ACM/ICPC Regional Contest](#), West Asia Region, fall 2002.

- **Rank 1300** among 400000 competitors in national university entrance exam for undergraduate studies, summer 1999.

TEACHING EXPERIENCE

- Fall 2009 & 2008 **Logic Laboratory**, [University of Tehran](#), Tehran.
- Spring 2007 **Software Engineering I & II**, [Islamic Azad University](#), Behbahan.
- Spring 2005 **Advanced Algorithm Design for Programming Contests**, [University of Isfahan](#), Isfahan.
- Spring 2004 **Data Structures and Algorithms**, [Jahad Daneshgahi Univ.](#), Ashkezar, Yazd.
- Spring 2004 **Artificial Intelligence**, [Jahad Daneshgahi University](#), Ashkezar, Yazd.

PROFESSIONAL EXPERIENCES

- May 2006 – Aug. 2007
Head of Linux Programming Team, [ICTI, Isfahan University of Technology](#)
 - Designer and Developer of *Windows and Linux SMP-aware Device Drivers* for a high resolution and high frequency analog to digital PCI interface card.
 - Developer of *Linux Socket-Level Network Infrastructure* for distributing high frequency data among consumers.
 - Coordinator of Research Group on *i386 and x86-64 SIMD Instructions* for Linux DSP.
- Jan. 2001 – May 2001
Dynamic Web Designer, Vice Chancellor For Research Affairs, [University of Isfahan](#)
 - Developer of a *Platform-Independent Web-Based Database Using CGI Technology*.

TECHNICAL SKILLS

- **Hardware Description Languages**
 Proficient in *VHDL* and *Verilog*. Fluent in *SystemC*.
- **Programming Languages**
 Proficient in *Pascal*, *C*, *C++*, and *Java*, also *80x86*, *MCS51*, and *Z80 Assembly*.
- **CAD & Tools**
 Proficient in *Matlab*, Altera *Quartus II* and Mentor Graphics *ModelSim* and *LeonardoSpectrum*.
- **Web Development**
 Proficient in *HTML*, *CGI Programming* and *PHP*. Familiar with *Jscript*, *XML* and *XHTML*.

LANGUAGES

- **Persian** Native
- **French** Familiar
- **English**
 - TOEFL iBT (8 Aug. 2009): Total: **96/120**, Reading: **28/30**, Listening: **24/30**, Speaking: **22/30**, Writing: **22/30**
 - TOEFL iBT (4 Dec. 2009): Total: **103/120**, Reading: **29/30**, Listening: **30/30**, Speaking: **19/30**, Writing: **25/30**
 - GRE PBT (24 Oct. 2009): Verbal: **420/800** (40%), Quantitative: **690/800** (69%), Writing **2.5/6.0** (3%)