

# RÉSUMÉ

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## MAJID VALIPOUR

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### RESEARCH INTERESTS

- Network Protocols and Next Generation Network Architecture
- Peer-to-peer Systems and Overlay Networks
- Sensor Networks
- Advanced Computer Architecture and Embedded Systems
- Philosophy and Literature

### EDUCATION

**Current** University of Toronto, Toronto, Canada  
**M.A.Sc. in Electrical and Computer Engineering**, Major: Communication  
since September 2006  
Expected Graduation Date: November 2008

**2002–2006** Sharif University of Technology, Tehran, Iran  
**B.Sc. in Computer Engineering**, Major: Hardware Engineering  
GPA: 18.15/20 3.63/4  
*Major courses:* Computer Architecture(A), Microprocessor(A+), Digital Sys. Design(A+), Modern VLSI Design(A+), Signals and Systems(A+), Linear Control(A), Computer Networks(A+), Data Communication(A+), Fuzzy Systems(A)

**1998–2001** Sheikh Ansari High school, Dezfoul, Iran  
Part of National Organization for Development of Exceptional Talents  
**Diploma, Mathematics and Physics Discipline**,  
GPA :19.45/20 3.89/4

### HONORS AND AWARDS

- Edward S. Rogers Sr. Graduate Scholarship, University of Toronto, 2006
- **Outstanding Student** Awarded by Sharif University president, 2006
- Granted admission to graduate program of Computer Engineering Department of Sharif University of Technology without entrance exam (Through Exceptional Talents Admissions Office), December 2005.  
*Note.*The department offered admission to two distinct students in each major that year, based on students overall GPA, average grade in relevant courses and research activities.
- **Ranked 1st** among Hardware Engineering students, spring 2005.
- **Ranked 1st** in International Rescue Simulation League Robocup2005 ,Osaka, Japan as a member of Impossible Team, July 2005.
- Selected for Dual Degree Program from Chemical and Petroleum Engineering department of Sharif University of Technology, December 2004.

- **Ranked 49th** among more than 300,000 participants in national university entrance exam ,2002.
- Selected for National Organization for Development of Exceptional Talents(NODET) through an exam among 700,000 participants ,1995.

## TEACHING EXPERIENCE

- University of Toronto
  - ECE461 - Internetworking, Prof. J. Liebeherr Fall 2007.
  - ECE342 - Computer Hardware (Lab Assistant), Prof. P. Anderson Winter 2007.
  - ECE253 - Digital and Computer Systems (Lab Assistant), Prof. P. Aarabi Fall 2006.
- Computer Engineering Department, Sharif University of Technology
  - Computer Architecture, Prof. A. Jahangir Fall 2005.
  - Electrical Circuits , Prof. S. Bagheri shouraki, Fall 2005.
  - Signals and Systems , Prof. M.T. Manzuri, Fall 2004.

Responsibilities included: *designing and marking assignments, taking quizzes, updating course webpage, helping students in the lab, and regular problem solving sessions.*

## PROJECTS AND RESEARCHES

- Working on the Hypercast to use its capabilities on the network layer in order to inter-connect nodes in various substrates using overlay networks, under supervision of Prof. Jorg Liebeherr. (*current*)
- **BS Thesis**, Parallelization of the K-mean Clustering Algorithm for Vector Processing under supervision of Prof. H. S. Azad.
- Designing and implementing heterogeneous agents for Robocup Rescue Simulation Sharif Univ., Artificial Intelligence and Robotics Laboratory, Prof. J. Habibi, 2004-2005.  
source code publicly available as open source software
- Design ,Test and synthesize of a 8080 based processor with FP arithmetic using VHDL language for Hardware Description Language course, Prof. B. Hamdinyaran, 2004.
- A survey on DSP(Digital signal processor) difference with a simple processor for Microprocessor course, Prof. Karimifard, 2004.

## WORK EXPERIENCES

- Advanced Information and Communication Technology Center (AICTC) 2004-2005  
Working as a JAVA developer in an enterprise software development team which designs and implements J2EE multi-tier enterprise application such as e-learning solutions.

## PUBLICATION

- Saman Aliari Zonouz, Hamid Reza Vaezi Joze, Siavash Rahbar, Majid Valipour, Alireza Fathi, *Impossible Sony AIBO 4-Legged RoboCup Technical Report* RoboCup 2006, Bremen, Germany.
- Alireza Fathi, Majid Valipour, Nasrin Mastafazade, Saba Ardeshiri, Sepide Movaghati, Shadi Hariri, Zeinab Jahanzad, *Poseidon Infra Structure Team Description Paper* RoboCup 2006, Bremen, Germany.
- Hamid Reza Vaezi Joze, Saman Aliari Zonouz, Siavash Rahbar, Majid Valipour, Alireza Fathi, *Impossible RoboCup Team Description Paper* RoboCup 2005, Osaka, Japan.
- Saman Aliari Zonouz, Jafar Habibi, Majid Valipour, ‘A Fuzzy Probability World Model for Multi-Agent Systems’, *Proceedings of RoboCup*, Osaka, Japan, 17-19 July 2005.

## PROFESSIONAL SKILLS

- Programming language: Java, C++, C, PHP ,x86 and m68k assembly and familiar with nios-II soft processor assembly
- Hardware modeling languages: VHDL, Verilog HDL
- Network Simulator: NS2
- CAD Tools: Modelsim, Leonardo, MaxPlusII, Orcad, PSpice and Protel
- Signal Processing: MATLAB
- Operating System: GNU/Linux(administration),Windows

## LANGUAGE SKILLS

- Persian (Farsi) : native
  - English : fluent  
Studied as a graduate student at University of Toronto(English language university) since Sept. 2006  
TOEFL: paper based 15 October 2005  
Total: 610 , Listening: 58 , Structure: 65 , Reading: 60 , TWE: 4.0
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