

SEYED HOSSEIN KAFFASH BOKHARAEI

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PERSONAL DETAILS

- **Date of Birth:** September 14th, 1986
- **Citizenship:** Iranian Citizen
- **Marital Status:** Single

EDUCATION

- **[2004 – Present] Undergraduate:** Software Engineering student at Computer Engineering Department of Sharif University of Tech. GPA: 18.04/20, Last Year GPA: 18.89/20. (U.S. Scale: 3.80/4.00 and 4.00/4.00 respectively)
- **[2003 – 2004] Pre-college:** Preparation courses for IOI at Young Scholars Club, instead. (Pre-college is the last year of high school, but I was preparing for IOI competition at YSC instead of it)
- **[2000 – 2003] High School:** Diploma in Mathematics and Physics, Shahid Hasheminezhad School (branch of NODET, National Organization for Development of Exceptional Talents), Mechhed, Iran.

RESEARCH AREA OF INTERESTS

- **Computer Networks:** Routing Algorithms, Wireless Networks, Network Security, Peer-to-Peer networks, Multimedia over Network
- **Artificial Intelligence:** Robotics, Robots Motion, Multi-agent Systems, Machine Learning, Computer Vision
- **Graph Theory**
- **Computational Geometry**
- **Multimedia Systems**

AWARDS AND HONORS

- **Dec. 2007:** 2nd Place of Regional Contest in ACM ICPC, as a member of Vj3 team, Asia region, Tehran site.
- **Sep. 2007:** Ranked 3th in Cumulative GPA among more than 100 students of the department, 2004 beginners in Computer Engineering Dept., Sharif University of Technology.
- **Dec. 2006:** 4th Place of Regional Contest in ACM ICPC, as a member of Vj13 team, Asia region, Tehran site.
- **Nov. 2005:** 5th Place of Regional Contest in ACM ICPC, as a member of VJ13 team, Asia region, Tehran site.
- **Sep. 2004:** International Silver medal of 16th IOI (Intl. Olympiad in Informatics), Athena, Greece.
- **Sep. 2003:** National Gold medal of 13th INOI (Iran National Olympiad in Informatics), Iran.
- **Sep. 2002:** National Silver medal of 12th INOI (Iran National Olympiad in Informatics), Iran.
- **Aug. 2000:** 1st Place of National Students' Robocup as a member of

PUBLICATIONS

- Arshia team, Tehran.
- **Sep. 1997:** Selected for National Organization for Development of Exceptional Talents (NODET).
- [Conference Paper] S. H. Kaffash Bokharaei, N. Asadi, S. Bagheri Shouraki, S. H. Khasteh, H. R. Vaezi Joze, *3 Dimensional Ellipse-Based Trajectory Generation Model for 4-legged Robots*, Submitted to HIS'08 Conference on Human System Interaction, Krakow, Poland, May 2008.
- N. Asadi, S. H. Kaffash Bokharaei, S. Bagheri Shouraki, H. R. Vaezi Joze, S. Hossein Khasteh, *Enhanced Elliptic Trajectory Generation for 4-Legged Robots*, Submitted to 13th International CSI Computer Conference, Kish Island, Iran, 2008.
- H. R. Vaezi Joze, N. Asadi, S. H. Kaffash Bokharaei, N. Zolghadr, *Impossibles & Autonomous Four-Legged Soccer League on AIBO Platform*, Submitted to 13th International CSI Computer Conference, Kish Island, Iran, 2008.
- J. Habibi, H. R. Vaezi Joze, K. Mokhtarian, N. Asadi, A. Kamali, M. Safarnejad, N. Zolghadr, H. Kaffash, *Impossibles AIBO Four-legged, RoboCup 2007 Technical Report*, Robocup2007, Atlanta, United States, 2007
- H. R. Vaezi Joze, K. Mokhtarian, N. Asadi, A. Kamali, M. Safarnejad, N. Zolghadr, H. Kaffash, *Impossibles Architecture for Aibo Four-Legged Soccer in Robocup 2007*, Robocup2007, Atlanta, United States, 2007

RECENT PRESENTATIONS

- H. Kaffash Bokharaei, *An introduction to Structured Peer-to-Peer Networks*, Computer Networks Course, Sharif University of Technology, Oct. 2007
- A. R. Khosroshahi, H. Kaffash Bokharaei, N. Asadi, *Linux File System*, Operating Systems Laboratory, Sharif University of Technology, March 2007
- H. Kaffash Bokharaei, *An introduction to MPEG-4*, Scientific and Technical Presentation, Sharif University of Technology, Dec. 2007.
- H. Kaffash Bokharaei, *An introduction to MPEG*, Technical English, Sharif University of Technology, May 2005.

PROJECTS

- Design, Analysis and implementation of Warehouse Manager as the final project of System Analysis and Design course at request of ARG Engineering Company, Computer Engineering Department, Sharif University of Technology, Sep. 2007 (Director: Prof. J. Habibi)
- Design and implementation of CardPostal as the final project of Web Programming course, Computer Engineering Department, Sharif University of Technology, Jul. 2007 (Director: Prof. R. Khosravi)
- Sony 4-legged Soccer Robotic League, Robotics World Cup 2007, Atlanta, United States, Artificial Intelligence and Robotics

TEACHING & WORK EXPERIENCE

- Laboratory (AIRL), Sharif University of Technology, 2006–2007. (Director: Prof. J. Habibi)
- Design and implementation of MiniJava Compiler using LL(k) grammar producing Intel 80386 assembly code, Computer Engineering Department, Sharif University of Technology, 2006–2007. (Director: Prof. H. Abolhassani)
 - Design and implementation of MiniOS as an optional project of Operating Systems Course, Computer Engineering Department, Sharif University of Technology, 2006–2007. (Director: Prof. R. Jalili)
 - Design and implementation of Traffic Manager, a traffic statistics organizer, reporter and simulator, at request of ARG Engineering Company, July 2006 to Nov. 2007
 - Design and implementation of GoogooliHobba game as a project of Advanced Programming in Java course, Computer Engineering Department, Sharif University of Technology, Dec. 2005 (Director: Prof. R. Khosravi)
- Teaching Assistant, Computer Networks course, Director: E. Malekian, Fall 2007 (Current)
 - Participated in Robotics World Cup (RoboCup), Sony AIBO 4-Legged Soccer League, Atlanta, United States, team: Impossible, Jul. 2007
 - Project manager and programmer in ARG Engineering Company, Jan. 2006 to Dec. 2007 (Current)
 - Instructor for International Olympiads in Informatics at Young Scholars Club, July 2003 to Sep. 2004
 - Teaching Pascal at high school of Shahid Hasheminezhad, Fall 2003
 - Teaching Fundamentals of Computer and Informatics at high school of Shahid Hasheminezhad, Fall 2003

MEMBERSHIPS

- Robotics Laboratory, Sharif University of Technology
- National Organization of Outstanding Faculties and Students
- Young Scholars Club (YSC)
- National Organization for Development of Exceptional Talents (NODET)

PROFESSIONAL SKILLS

- **Programming Languages:**
 - Proficient in C, C++, Java, UNIX shells, Pascal
 - Familiar with HTML, SQL, PHP, JSP, ASP, 68000 Microprocessor, Pentium Processor, AVR Microcontroller.
- **Operating Systems:** Linux (Fedora & Debian), MS Windows, MS DOS