

Mohammad Mahdi Moazzami



Digital Media Research Lab. (DML)
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Personal Details

Name: Mohammad Mahdi Moazzami
Gender: Male
Date of birth: August 21st, 1984
Citizenship: Iran Citizen
Marital Status: Single

Research Interests

- ✓ Data Communication and Computer Networks
- ✓ Mobile and Wireless Communication Networks - Pervasive Computing
- ✓ Ad-hoc and Wireless Sensor Networks
- ✓ Multimedia Systems
- ✓ Image and Video Processing
- ✓ Information and Network Security Systems
- ✓ Location-Based Systems (LBS)

Education

*B. S in Computer Engineering,
Major in Information and Communication
Technology (ICT).
(GPA: 15/20)*

**Department of Computer Engineering,
Sharif University of Technology
Tehran, Iran. 2002-2006.**

***Thesis:** Analysis and Implementation of Overlay Multicast and Routing Protocols in Mobile Ad-Hoc Networks, Supervised by Dr. H.R. Rabiee.(GPA 19/20)*

*Diploma In Mathematics and Physics
(GPA 18/20)*

**Allame Helli, National Organization for
Development of Exceptional Talents
(NODET), Hamedan, Iran. 1995-2002.**

Courses

- ✓ Data Communication Systems (Graduate Course)
- ✓ Electronic Commerce Systems (Graduate Course)
- ✓ Multimedia Systems
- ✓ Signals and Systems
- ✓ Data and Network Security
- ✓ Computer Networks

Languages

Persian: *Fluent (Native)*

English: *Proficient (TOEFL, TWE and GRE looking for scores)*

Turkish: *Familiar*

Professional Memberships

Spring 2007-Present: *Researcher and Analyst, PeykAsa Messageware Co., Sharif University of Technology, Tehran, Iran.*

2005-Present: *Member of "Digital Media Lab. (DML)", Sharif University of Technology, Tehran, Iran.*

1999-2002: *Member of "Professional Chess Association", Hamedan, Iran.*

Research Experience

System Analyst and Team member

**PeykAsa Messageware Co.
Sharif University of Technology.**

*Research on Mobile and Wireless Network Infrastructure and Messaging Systems in 2.5, 3, and 4G Networks, Member of Analysis group.
Supervised by Dr. R. Jalili*

Spring 2007 – Present

Research Assistant

**Information Technology Center of
Excellence Iran Telecommunication
Research Center (ITRC)**

*Research on Ad-Hoc Networks and Routing protocols.
Supervised by Dr. H. R. Rabiee*

Spring 2006 – Summer 2006

Internship

**Information Technology Center of
Excellence Iran Telecommunication
Research Center (ITRC)**

*Research & Implementation of Ad-Hoc On-demand Distance Vector Routing protocol (AODV) in Ad-Hoc networks.
Supervised by Dr. H. R. Rabiee*

Summer 2006-Fall2006

Research Assistant and Team member

**Digital Media Lab (DML)
Sharif University of Technology.**

*Research on Multimedia Overlay Multicast in Ad-Hoc Networks, Member of wireless communication and networks research group.
Supervised by Dr. H. R. Rabiee*

Fall 2006 – Fall 2007

Certificates

- ✓ GSM Signaling and SS7 Certified, Mobile Communication Company of Iran (MCI),
Summer 2007.
- ✓ GSM Certified, Mobile Communication Company of Iran (MCI), *Fall 2006.*

Teaching Experience

Signals and Systems

*Computer Engineering Department,
Sharif University of Technology,
Tehran, Iran.*

**Teaching Assistant
Winter 2007-Summer 2007**

Computer Networks

*SSC Software Group,
Sharif University of Technology,
Tehran, Iran.*

**lecturer
Spring2006-Fall 2006**

MATLAB Lab.

*SSC Software Group,
Sharif University of Technology,
Tehran, Iran.*

**Instructor
Spring2006-Fall 2006**

Analysis and Design of Digital Integrated Circuits

*Computer Engineering Department,
Sharif University of Technology,
Tehran, Iran.*

**Teaching Assistant
Fall 2003-Winter 2003**

Accomplished Projects

- ✓ **Analysis and Design of WAP Gateway Server in GSM/GPRS Networks.**
(PeykAsa Messageware Co, Spring 2007-Present)
- ✓ **Analysis and Design of OTA Server in GSM/GPRS Networks.**
(PeykAsa Messageware Co, Spring 2007-Present)
- ✓ **Implementation of an application for encrypting/decrypting SMS and sending it, implemented encryption algorithms: DES and AES. Platform: J2ME, Symbian Mobile Handsets.**
(Data and Network Security course, Spring 2007)
- ✓ **Implementation and Enhancement of Overlay Multicast on Ad-Hoc Networks.**
(B.S. Thesis, Fall 2006))
- ✓ **Review and survey of several security systems: Intrusion Detection Systems (IDS, IDP, IPS) and Honeypots.**

- (Iran Telecommunication Research Center (ITRC), Summer 2006)*
- ✓ **Implementation and Enhancement of Ad-Hoc routing protocols**
(Computer Network course, Spring 2006)
 - ✓ **Processing the Image and Voice signals.**
(Multimedia System course, Spring 2006)
 - ✓ **Review, Analysis and Preparing a Business Plan (BP) for Cyberspace Information Security.**
(Advance E-Commerce course, Department of Management (MBA Group), Spring 2006)
 - ✓ **Review of several Electronic Business Models (BM) in E-Commerce.**
(E-Commerce course, Department of Management (MBA Group), Fall 2006)
 - ✓ **Design and Analysis of Hospital Automation system and Implementation of it based on .Net frame work.**
(Analysis and Design of Computer Systems course, Spring 2005)
 - ✓ **Design and Implementation of a Graphical Game (Chess) based on .NET framework.**
(Advance Programming Language course, Fall 2003)
 - ✓ **Analysis the strengths, weaknesses, and opportunities of ICT in Asian countries focused on Taiwan.**
(Fundamentals of Information Technology course, Spring 2002)
 - ✓ **Design and Implementation of a Graphical Game (Paranoid) in JAVA environment.**
(Programming Language course, Fall 2002)

Awards & Honors

- ✓ **Top Student Award, National Organization for Development of Exceptional Talents (NODET), Hamedan, 2001.**
- ✓ **Ranked 1st in the Local Chess Competition, Hamedan, 2000.**
- ✓ **Ranked 16th in the National Chess Competition, Iran, 2000.**
- ✓ **Acceptance in the entrance exams of National Organization for Development of Exceptional Talents (NODET) intermediate and high schools (1995 and 1997).**

Technical Skills

- ✓ **Programming Languages:**
Proficient in C/C++, Java, C#: Object Oriented Programming and Design;
Familiar with Pascal, PHP, XML, Bash scripting.
- ✓ **Operating Systems**
Proficient in Microsoft Windows and Linux: RedHat;

Familiar with Ubuntu and BSD

✓ **Design and Simulation Environments**

Proficient in MATLAB, OMNet++, Boson Sim, Maxplus,
Familiar with Pspice, NS-2 and OPNET

✓ **Graphical Design and Typesetting Environments**

Proficient in LATEX, Microsoft Office, Open Office;
Familiar with Adobe Photoshop, Adobe Primer, Autodesk 3ds Max, Maya

Presentation and Professional Talks:

✓ **Review, Analysis and Design WAP Gateway in GSM/GPRS Networks.**

(PeykAsa Messageware Co, Summer 2007)

✓ **Review, Analysis and Preparing a Business Plan (BP) for Cyberspace Information Security.**

(Advance E-Commerce course, Department of Management (MBA Group), Spring 2006)

✓ **Review of several Electronic Business Models (BM) in E-Commerce.**

(E-Commerce course, Department of Management (MBA Group), Fall 2006)

✓ **Review and survey about the ICT Revolution in the world.**

(Research and Presentation course, Department of Computer Engineering, Fall 2003)

Hobbies and other Interests:

✓ **Sports:**

- **Playing chess and football**
- **Swimming, Mountain climbing**
- **Riding Bicycle**

✓ **Movies:**

- **Beautiful Mind**
- **Game**
- **Seven**

✓ **Books:**

- **Science**
- **Poems**
- **History**

I was very influenced after reading the book “Little Prince.”