

## **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
- ✓ Software Engineering
- ✓ 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.(Grade: 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*

**Turkish:** *Familiar*

## Professional Memberships

**Winter 2007-Present:** *Researcher and Team Leader(Project Manager), PeykAsa Messageware Co., Sharif University of Technology, Tehran, Iran.*

**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 Leader

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

*Research Network Management Systems(NMS) and MIB Structure, SNMP Protocol  
Supervised by Dr. R. Jalili*

Spring 2008 – Present

### 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

## Papers and Technical reports

- ✓ **Working Paper:** M.M Moazzami, "QoS Routing Solutions For Mobile AdHoc Networks"
- ✓ **Technical Report:** M.M Moazzami, "A survey of AdHoc routing Protocols", January 2007, Tehran, Iran
- ✓ **Technical Report:** M.M Moazzami "Mobile and Wireless Network Infrastructure and Messaging Systems in 2.5, 3, and 4G Networks (GSM toward 4G)", September 2007, Tehran.

## 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

**Analysis and Design of Digital Integrated Circuits**  
*Computer Engineering Department,  
Sharif University of Technology,  
Tehran, Iran.*

Teaching Assistant  
Fall 2003-Winter 2003

## Accomplished Projects

- ✓ **Design and Implementation of Network Management System (NMS)** ( Deployed on in Iran MCCI GSM/GPRS Network),  
*(PeykAsa Messageware Co, Spring 2008-Present)*
- ✓ **Analysis and Design of WAP Gateway Server** ( Deployed on in Iran MCCI GSM/GPRS Network),  
*(PeykAsa Messageware Co, Spring 2007-Winter 2007)*
- ✓ **Analysis and Design of OTA Server** ( Deployed on in Iran MCCI GSM/GPRS Network),  
*(PeykAsa Messageware Co, Spring 2007-Winter 2007)*

- ✓ **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)*

## 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 Object Oriented Programming and Design C/C++, Java.  
Familiar with Pascal, PHP, XML, Bash scripting.
- ✓ **Operating Systems**  
Proficient in Linux: Debian, RedHat;  
Familiar with Ubuntu and BSD
- ✓ **Design and Simulation Environments**  
Proficient in MATLAB, OMNet++, Boson Sim, Maxplus,  
Familiar with Pspice, NS-2 and OPNET, GSM SIM,
- ✓ **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:**

- ✓ **Fixed Line SMS, Sending short message in PSTN/ISDN Networks,**  
(*PeykAsa Messageware Co, Fall 2008*)
- ✓ **Review, Analysis and Design WAP Gateway in GSM/GPRS Networks.**  
(*PeykAsa Messageware Co, Summer 2007*)

## **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.*”**