

## Curriculum Vitae/Resume

# Mohammad Hossein Homaei

**Information Technology and Computer Engineering**

*Head of Wireless Sensor Network Laboratory in Iran(WSNLAB)*



## Personal Information

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Gender: Male  
Date of Birth: 10 Jun. 1984  
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## Education

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Fall 2010 B.Sc. in computer engineering, **University of Applied Science and Technology**

Fall 2011 Major: Information Technology,

**Thesis:** “*Quality of Service and Coverage Optimization in Wireless Sensor Networks*”

Advisor: Eng. Vahid Moghiss

Fall 2010 B.Sc. in computer engineering, **Islamic Azad University of Hamadan Branch**

Fall 2011 Major: Software Engineering,

**Thesis:** “*A Learning Automata Based Coverage Algorithm for Wireless Sensor Network*”

Advisor: Eng. Vahid Moghiss

Fall 2008 Collage. in computer engineering, **University of Applied Science and Technology**

Fall 2010 Major: Information Technology,

**Thesis:** “*Introduction, Evaluation and Analysis Covering Different Models in Wireless Sensor Networks.*”

Advisor: Eng. Vahid Moghiss

## Honors

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- Jan.2008, Member of Iran’s National Foundation of [Elites- Registered Inventor](#)
- Feb.2008, Rank 1 in the National wide Invention Festival Bouali Sina, Hamadan, Iran
- Jul.2008, Rank 1 in the National wide Entrepreneurship Festival University of Ilam, Iran
- Aug.2008, Rank 1 in the National wide Best Idea Festival , Yazd, Iran
- Sep.2008, Rank 2 in the Khwarizmi International Festival & NAJA, Tehran, Iran
- Nov.2008, Rank 1 in the National wide Invention Festival Hamadan, Hamadan, Iran
- Jan.2009, Selected in FINEX 2009, Inventions Exhibition, Tehran, Iran
- Feb.2009, Rank 2 in the Entrepreneurship Festival Buali Sina, Hamadan, Iran
- Apr.2009, Rank 1 in the University of Applied Science and Technology Student's, Iran
- Jan2010, Rank 1 in the National wide Invention & Entrepreneurship Festival Hamadan, Hamadan, Iran
- Jan.2010, Selected in Commercialization FINEX 2010 Tehran, Tehran, Iran
- Nov.2010, Rank 2 in the National wide Invention Festival Hamadan, Hamadan, Iran
- Apr.2011, Selected in the BPJ, Islamic Azad University Student's, Iran
- Oct.2011, Rank 1 University of Applied Science And Technology Association's, Iran
- Jan.2012, Selected in Commercialization & Invention Festival, FINEX 2011 Tehran, Tehran, Iran

## Publications

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- Feb. 2011 **M.H.Homaei**, V. Moghiss and B.Farhadi, "*Introduction, evaluation and analysis covering different models in wireless sensor networks*" , 3rd National Conference on Computer Engineering and Information Engineering, Iran(CEIT 2011)
- Feb. 2011 **M.H.Homaei**, B. Farhadi and Behzad.Farhadi, "*Importance of scheduling, Adjustable Sensing and Radio range in optimize lifetime of wireless sensor networks.*" , 3rd National Conference on Computer Engineering and Information Engineering, Iran(CEIT 2011)
- Mar. 2012 **M.H.Homaei**, B.Farhadi, " *A Survey of Adhoc and Wireless Sensor Network Simulation Tools*" , International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)
- Jan. 2012 **M.H.Homaei**, B.Farhadi, " *A Book of Coverage in Wireless Sensor Network*" BPJ Publication Group, Islamic Azad University, Iran

## Research Interests

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- \_ Wireless Sensor Network
- \_ Coverage in WSN
- \_ QoS and Coverage in WSN
- \_ Body Area Network
- \_ AdHoc Network

## Research Experiences

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- Jan 2012 Research Assistant working on Coverage in WSN, [WSN Laboratory](#), UAST  
Supervisor: Eng. Vahid Moghiss.  
Aug. 2008
- Apr 2012 Research Assistant working on Intelligent Algorithms used in Irrigation and Agriculture, Hamadan Science and Technology Park (HSTP),Institute for Research in Agriculture Science (IRAS)  
Supervisor: Dr. Reza Pirtaj.  
Aug 2009
- Jan 2011 Research Assistant working on Native Mail Server, BASU Incubator Center, Hamadan, Iran,  
Supervisor: Eng. Vahid Moghiss.  
Aug 2009

## Patents:

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1. Mohammad Hossein Homaei, 2007. Design a Tour Guide System Based on Vocal,  
(Iranian Patent Grant Number: 37430)
2. Mohammad Hossein Homaei, 2008. Design Greenhouse and Agriculture Automation System,  
(Iranian Patent Grant Number: 49172)
3. Mohammad Hossein Homaei, 2008. Online Registration Traffic fines System,  
(Iranian Patent Grant Number: 53033)
4. Mohammad Hossein Homaei, 2008. Design Fishery and Fish Pool Automation System,  
(Iranian Patent Grant Number: 53049)
5. Mohammad Hossein Homaei, 2012. Design Wireless Sensor Network System for Healthcare and Medicine Application, (Iranian Patent Grant Number: 64501)

## Teaching Experiences

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### Instructor

Fall'11 Introduction to Wireless Sensor Network, WSN Courses, **Sina Association, UAST**, Hamadan, Iran.

Spring'11 Microsoft Certified Solutions Expert (MCSE) 2008, **UAST**, Hamadan, Iran.

Fall'10 Linux Networking, Instructor: Eng. Vahid Moghiss.

## Work Experiences

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- **Coverage Models Design in WSN Laboratory (WSNLAB).**

Now I used to work as a professional team member on a coverage and connectivity in WSN.

- **Write Book about 4 Simulator in WSN to Introduce that's for all of researchers in this field, for example :**

Work on jsim, NS2, NS3, OmNet++, Atarraya to make a Multimedia Introduction about these Simulators.

- **And coming soon:**

Release Network Simulator ver. 2.35 without any bug in WSN under supporting WSNLAB.

## Languages

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English: Fluent (TOEFL IBT: 90[R:28 L:21 S:23 W:18])

Farsi: Mother tongue

## Computer Skills

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- Simulators Proficient in Wireless Sensor Network: Java Simulator, NS2, Atarraya Simulator, MATLAB And visually simulator family.
- Languages Proficient in C/C++, Java, also scripting languages like: JS, AWK and PHP.
- Familiar with ASP, C# and VB.
- Database MySQL, SQL Server, Oracle DB and Microsoft Access.
- OS Proficient in different UNIX environments and MS Windows.
- Familiar with Mac OS X.
- Other LATEXand MS Office.

## Selected Courses, Bachelor of Information Technology

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Linux OS and Networking 20 Eng. Moghiss.

Network Lab 20 Eng. Alimohammadi.

System Analysis 20 Eng. Alavi.

Algorithm Designing 19.5 Eng.Hamidi.

## References

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Vahid Moghiss: Eng, Computer Engineering Department, IAUH, Hamadan, Iran.

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Ameneh Alimohammadi: Associate Professor, Computer Engineering Department, UAST, Hamadan, Iran.

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Mohammad Abdolrahmani: Associate Professor, Electrician and Computer Engineering Department, IAUH, Technology, Tehran, Iran.

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