

# Dr. Nasser Modiri



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## PERSONAL BACKGROUND

### PERSONAL

Surname: Modiri	Nationlity: Iranian with USA Green Card and Permanent UK Visa
Forename: Nasser	Sex: Male
Data of birth: 21 April 1962	Marital Status: Married, Childern: 2

### ADDRESS

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*My CV which is more than 10 pages in Farsi details my teaching, seminars, designs, implementation, consultancy, contracts, publications, etc.(1994-2008) is also attached.*

### TEACHING EXPERIENCE

- 1. March 1994 – Today Faculty Member at the Azad University, IRAN.**  
Lecturing (5) Ph. D. courses (6 units), (36) M.Sc. degree (3 units) courses in Computer Communications Systems, Network Management, and Software Engineering, supervisor of 44 MSc Projects (6 units), 56 MSc Seminars (2 units) and 57 B.Sc degree courses in Internet Engineering, Network Design and Software Engineering.
- 2. December 1994 – June 1997 Faculty Member at the Amir Kabir University, IRAN.**  
Lecturing M.Sc. degree courses in Computer Communications Systems, Network Management, Software Engineering, and Management Information Systems. Specification and Management of 14 volumes of articles, on computer Networks, totalling 93 articles, 18 of which are published in Iranian technical magazines, supervisor of 4 MSc Projects and 7 MSc Seminars.
- 3. September 1994 – January 1995 Technical Manager at the Iranian University Of Science and Technology (IUOST), IRAN.**
  - Setting up a Laboratory for AI Projects at (IUOST).
- 4. December 1994 – January 1996 Lecturer (on contract) at the Azad Islamic, IRAN.**
  - Teching M.Sc. degree courses in Computer Communications Systems.

## **5. October 1986 - January 1989      Assistant Lecturer at the University of Sussex, UK.**

- Assisting in lecturing 12 three unit courses, a copy of the courses can be provided on request.

In 1991 I was awarded a United Nation Development Program award to work under their Transfer Of Knowledge Through Ex-Patriot (TOKTEN) program for 3 months. I was assigned in 1993 to teach and develop a data communications laboratory at the Iran University of Science and Technology. From September-December 1993 I taught a 3 unit master degree, 51 hours lecture, final exam were in English; entitled “ Distributed Network architectures” . Other Seminars and Workshops were:

- “ Applications of Computer Networks within Open System Environments” , Oct.25, Nov.1, Nov.8, Nov.15, 1993, Iran University of Science and Technology. IRAN.
- “ Open Network Interoperable Protocol Specifications” , Nov.17, 1993, University of Imam Hossein, IRAN.
- “ The Open System Environments” , Nov.17, 1993, University of Tehran, IRAN.
- “ A Comparison Between The Internet Services and Open System Services” , Nov.20, 1993, University of Karman.IRAN.
- “ Interconnections of Open System Environments” , Nov.21, 1993, University of Sharif, IRAN.

## **COURSES**

- Certificate of Completion of Product Life Cycle, Network Equipment Technologies, 1991.
- Certificate of TICKIT Internal Assessor Course, SGS Yarsley Quality Management Service, 1994.

## **EXPERIENCE**

**Jan. 1996 – Today      Director of Ayadengan Rayandeh Computer Co.**

**May 1998– April 1999      Director (on contract) of the Information and Software Department of the IROST, IRAN.**

Implementing the Iranian University and Research Centers Private WAN Computer Network, supervising/explaining the design completed at Tidewater Inc, and the management of 27 engineers.

**April 1996 – May 1998      Director of Computing Department at Tidewater Middle East Marin Services Inc., IRAN.**

Managing all aspects of 10 Simultaneous projects from conception to completion, with 23 personnel, entitled:

1. Design and documentation of Chabahar Port Computer Network.
2. Design and documentation of Bousher Port Computer Network.
3. Design and documentation of Imam Port Computer Network.
4. Implementation and documentation of Chabahar Port Computer Network.
5. Specification and Sell to Chabahar the Computing Environment required.
6. Design, Development and documentation of Iranian Port and Shipping Organisation Internet Site and Services including the implementation of 500 Web Pages describing the PSO.
7. Design and development of the PSO 6 transactional-based applications managed from the central site of PSO in Tehran for the collection of Information and Statistics on:
  - Registration of Floats
  - Shipping traffic
  - Contamination of Waters

-Offshore Lights

-Search and Rescue

8. Implementation and documentation of the PSO Educational Building computer network.

9. Design and documentation of the Iranian University and Research Centers Private WAN Computer network.

10. Recommendation and fault finding of the Iran Khodro computer network which includes 80 SPARC, 70 Silicon Graphics, 150 Compaq computers.

While at Tidewater, the Tidewater's two main buildings were networked, their statistics collection were 80% automated, and its website and 5 internal software application were in house developed.

**January 1995 – April 1996 Technical Consultant at the Statistic Center of Iran, IRAN.**

Setting up a Unix environment based on Sun SPARC Systems, and as a technical manager developing two Software Applications for sorting telex and bulletin news received at the center, UIs of the applications for the first time in Iran were developed using MOTIF and C in a farsi environment.

**May 1991 - September 1994 Senior Engineer, Network Equipment Technologies, CA, USA.**

At NET I work on the development of a CMIP gateway to interface to the Concert Network Management System. As a team leader I contributed significantly to all aspects of the project from specifications to shipping the tapes to the customer. My responsibilities were concerned with:

1. Understand the customer Product Requirements.
2. Write the Product Specifications.
3. Review and deliver all the design documentations (deliverable)
4. Organize and maintain the product communications platform for conformance and interoperability.
5. Develop a test plan for testing the tri-lateral company product (IBM, BT, Syncordia). I successfully delivered release 1.01 and 1.02 of the product. NET rewarded all the main members of the team with an ACE award.

**March 1990 – May 1991 Systems Engineer, Teknekron Communications Systems, CA, USA.**

Worked on the British Telecom Concert project. My responsibilities were concerned with:

1. Investigate the design of the communications platform of an OSI conformant Network Management System (NMS).
2. Design and write ALL the System and Acceptance Test Cases of a NMS.
3. Negotiate with the customer the acceptance TCs and scenarios.

**September 1989 – March 1990 Principal Engineer, STC Telecommunications, UK.**

Defining a Generic Network Management Architecture to conform to ISO, CCITT, CEPT and OSI/NM FORUM standards. As a communication expert, to advise the Design Authority group in making long term decisions on selecting ISO stacks and suppliers. My responsibilities were:

1. Design a template for standardizing documentations across STC-T.
2. Write an introductory document for “ Newcomers to the GNMA” (Generic Network Management Architecture).
3. Write “ the Design Authority Objectives” , “ The Q-Interfaces” , “ Designer Useful Notes” , “ The GNMA Overview” , “ The GNMA Communications Stack” , and “ The GNMA Library” documents.

**January 1987 – September 1989 Senior Engineer, The Networking Centre, UK.**

From January 1987 till December 1988 I worked part-time for The Networking Center. My Ph.D was sponsored by The Networking Centre.

From January 1989 until September 1989 I worked as a Senior Engineer, writing Generic and Abstract Tests for testing an IEEE 802.5 MAC-Bridge which may operate the Spanning Tree Algorithm and Protocol. My responsibilities were concerned with:

1. Investigate the availability of IEEE 802.5 Interface Cards and write a report on the subject.
2. Write a specification for a VMEbus compatible IEEE802.5 MAC Entity Interface Card.
3. Write two reports on “ IEEE802.5 MAC Bridges” and “ Abstract Test Cases For MAC Bridges” with the Spanning Tree Algorithm and Protocol.

## **EDUCATION**

**October 1986 – May 1989** University of Sussex – UK

Researched for a doctoral thesis in the area of Computer Communication. All my work was carried out on Sun computer systems. I obtained my PH. D. in May 1989. Thesis entitled: “ Monitoring and Management of OSI Networks” .

**October 1985 – October 1986** University of Southampton – UK

Master of Science (MSc) degree in Electronics at the University of Southampton – UK.

Thesis entitled: “ VAX-Server On The Cambridge Ring” .

**October 1982 – July 1985** University of Sussex – UK

Bachelor of Science (BSc) degree in Electronic Engineering at the University of Sussex.

**September 1980 – July 1982** Highbury College of Technology – UK

Diploma in Technology (Eng) in the following subjects:

- Principles of Technology, DISTINCTION
- Mathematics, DISTINCTION
- Principles of Tec. And Maths, DISTINCTION
- Communication, DISTINCTION
- Project, DISTINCTION

My Diploma was awarded with Commendation.

**September 1978 – July 1980** Highbury College of Technology

“ O” levels in the following subjects:

- Mathematics (CSE), GRADE I
- Physics (CSE), GRADE I
- Tech. Mechanical Eng. (CSE), GRADE I
- Tech. Electrical Eng. (CSE), GRADE I
- Mathematics (CSE), GRADE I
- Physics (CSE), GRADE II
- Tech. Mechanical Eng. (CSE), GRADE II
- Tech. Electrical Eng. (CSE), GRADE II
- First Certificate in English GRADE C
- Geometrical Drawing (GCE) GRADE C
- Joint Matriculation Bord GRADE A

## **ENVIRONMENTS USED**

High Level Languages: Pascal, Fortran, Basic and C.

Notations: Abstract Syntax Notation One (ANS.1), Tree Tabular Conformance Notation (TTCN).

Desktop Publishing: Pices (Apollo based), Interleaf (SUN based), FrameMaker.

Operating Systems: Bsd 4.2, SysV and Domain (Apollo based), Sun Solaris, Windows, Windows Servers.

## EXHIBITIONS

I exhibited different areas of my research work at a number of exhibitions. Under the sponsorship of The Networking Centre the early ideas of the network protocol analyser and later prototype versions of the analyser were exhibited at the following exhibitions:

- **CIMP 1986** - The Computers Industry MAP (CIMIP) exhibitions was held at the Birmingham Exhibition Center, Birmingham (5-8 December-1986). In that exhibition, I represented the University of Sussex and demonstrated, using block diagram representation, the procedure of communication between the layers of a 7-layer OSI stack model.
- **ENE 1988** - The Enterprise Networking Event exhibition was held at the Baltimore Convention Center, Baltimore, MD (5-8, June, 1988). A prototype version of the analyser was demonstrated in that exhibition by The Networking Centre. This version of the analyser was called PA-1.0. The 1987 OSI standards were used in PA1.0.

## ACTIVITIES

In my free time, I enjoy playing badminton and swimming. I have also an interest in the Martial Arts. I am fluent in Iranian, and English with some Spanish.

## REFERENCES

Appropriate references can be supplied upon request.

## BIOGRAPHY

Nasser Modiri received his M.S. degree from the University of Southampton, U.K., and Ph. D. degree from the University of Sussex, U.K. in 1986 and 1989, respectively. In 1988 he joined The Networking Centre of Hemel Hempstead, and in 1989 he worked as a Principal Engineer at System Telephone Company (STC) Telecommunications Systems, U.K. In 1990, Dr. Modiri worked at Teknekron Communications Systems as a Systems Engineer, working on the British Telecom Concert project.

In 1991, as a senior engineer at the Network Equipment Technologies (NET) he continued working on the development of a CMIP gateway to the Concert Network Management System His research interests include dynamically testing ISO-base systems, development of graphical-based network management managed object compilers, and auto discovery of OSI network resources.

In late 1994, Dr. Modiri became a faculty member of the Computer Engineering Department of the University of Amir Kabir in IRAN while being involved with consulting, designing and implementing a number of major computer networks. In 1997, he joined the Tidewater Inc. as the Director of Computing Department managing 10 major projects. In 1998, Dr. Modiri became the Director of the Information and Software department of IROST for heading the implementation of the Iranian Private University WAN network which he had designed while at Tidewater Inc.

Currently, Dr. Modiri is the president of Ayandehgan Rayaneh Co. developing web-based software and designer and implementer of information technologies services for Intranet networks while teaching actively MSc courses

in network designing, software engineering and undertaking many MSc projects. He is currently developing applications for Virtual Universities, Virtual Parliaments, Virtual Organizations, ERP, GPS+GSM, GPRS and RFID technologies.

## **PUBLICATIONS**

During the course of my research I compiled three articles which were published in the IEEE Network Magazine, Computer Communications Magazine, and IEEE Communications Magazine.

*Since 1994 I have published more than 50 articles in difference magazines and conferences in Iran on the subjects of Computer Networking, Software Engineering and Design of Virtual Universities.*

1. F. Halsall, N. Modiri: " An Implementation of an OSI Network Management System" , IEEE Network Magazine, Vol.4. No. 4, Page 44-53, IEEE Communications Society, July 1990.
2. F. Halsall, N. Modiri: " Protocol Analyser for monitoring and analysis of OSI networks" , Computer Communications Magazine, Vol.13, No.9, Page 533-541, Butterworth-Heinemann, November 1990.
3. N. Modiri: " A Dynamic Tester for Testing OSI Networks" , Silicon Valley Networking Conference, April 24 & 25, Page 277-283, Sys Tech Research and Electronic Design, Maple Press, April 1991.
4. N. Modiri: " The Common Network Management Service Element Interface" , International Conference on Communications, June 23-26, Vol. 1, Page 132-138, IEEE Communications Society, June 1991.
5. N. Modiri: " An Implementation of the Common Network Management Information Service Element Interface" , IEEE Communications Magazine, Vol.29, No.7, Page 29-38, IEEE Communications Society, July 1991.
6. N. Modiri: " The ISO Reference Model Entities" , IEEE Network Magazine, Vol.5, No.4, Page 24-33, IEEE Communications Society, July 1991.
7. N. Modiri, F. Halsall: " The ASN.1 Syntax, Encoding Rules and a Compiler" , Wescon ' 91, November 19-21, Page 184-189, Western Periodicals Company, November 1991.
8. N. Modiri, K.Y.Hoh: " Prototyping Network Management Containment Graphs" , ACM Conference 1992 Symposium on Applied Computing (SAC/92), March 1-3, Vol.3, Page 1274-1283, ACM Publications, March 1992.
9. N. Modiri, K.Y.Hoh: " Graphically Prototyping Management Information Bases" , Silicon Valley Networking Conference, April 27-29, Page 377-385, Sys Tech Research and Electronic Design, Maple Press, April 1992
10. N. Modiri, M. Sutter, K.Y.Hoh: " Managed Object Class Pre-Compiler for Prototyping and Automatic Code Generation" , FREEDOM of Open Systems USING (Unix Systems Information Networking Group) ' 92, May 12-14, Page 55-66, Bellcore Publications, May 1992.
11. N. Modiri, M. Sutter, B. Johnson: " A Graphical Managed Object Class Pre-Compiler" , Electro ' 92 Software Engineering, May 12-14, Vol. 5 Page 69-74. Western Periodicals Company, May 1992.
12. N. Modiri: " Remotely Testing and Analysing OSI Networks" , Upper Layer Protocols, Architectures and Applications (ULPAA) ' 92, May 27-29, Page 426-435, International Federation of Information Processing (IFIP) Working Group (WG) 6.5, North Holland Publishers, May 1992.
13. N. Modiri: " Remotely Testing and Analysing OSI Networks" , International Federation of Information Processing (IFIP) Transaction, Upper Layer Protocols, Architectures and Application (ULPAA) Technical Committee 6, Page 441-450, North Holland Publishers, 1992.

14. N. Modiri: “ A DYNAMIC TESTER FOR USE WITH OSI NETWORKS” , PANEL 92, XVIII Conferencia Latino Americana De Informatica, August 31-September 4, Page 779-791, Universidad de Las Palmas de Gran Canaria, ESPANA, September 1992.
15. N. Modiri: “ A PROTOCOL ANALYSER FOR THE MONITORING AND ANALYSIS OF OSI NETWORK” , PANEL 92, XVIII Conferencia Latino Americana De Informatica, August 31- September 4, Page 792-811, Universidad de Las Palmas de Gran Canaria, ESPANA, September 1992.
16. N. Modiri, K.Y.Hoh: “ Graphical object verifier and managed object class precompiler” , Computer Communications Magazine, Vol. 15, No. 9, Page 593-602, Butterworth-Heinemann, November 1992.
17. N. Modiri, A. Erfani, A. Ayvaz, S. Sweedler : “ Generic Managed Object Class Template for Reuse in Network Management Systems” , Proceeding of the IASTED International Conference, RELIABILITY, QUALITY CONTROL AND RISK ASSESSMENT, NOVEMBER 4-6, Page 88-92, IASTED-ACTA press November 1992.
18. N. Modiri, A. Erfani, A. Ayvaz, K. Y.Hoh : “ GENERIC NETWORK MAMAGEMENT SYSTEM TEMPLATES’ , 1993 Western Simulation Multiconference, Object-Oriented Simulation (OOS) Conference (OOS 93), Page 182-187, The Society For Computer Simulation, January 1993.
19. N. Modiri, A. Erfani: “ Generic Templates for object Specification and Software Reuse” , ENTELECT 93, March 21-24, Page 147-156, ENTELECT Press, March 1993.
20. N. Modiri: “ Object– Oriented Template for Software Reuse In Network Management Systems” , International Congress on Computational Method in Engineering (ICCME), May 2-6, Vol.5, Page 3-10, Shiraz University Press, IRAN, May 1993.
21. N. Modiri, A. Erfani, B. Ravani: “ Generic Object-Oriented Template For Software Reuse” , Iranian Conference On Electrical Engineering (ICEE) 93, May 18-21, Vol.4 page 582-591, Amir Kabir University of Technology Press, IRAN, May 1993.
22. N. Modiri: “ Wireless and Celluar Computer Communications” , Northcon ‘ 93, Engineering in the 21 Century, October 12-14, Pages 9-13, IEEE Service Center, October 1993.
23. N. Modiri: “ Portable Computing: Celluar and wireless Communications” , SIMTEC 93, 1993 International Simulation Tecnology Conference, November 7-10, Page 175-181, OMNIPRESS, November 1993.
24. M. R. Nami, N. Modiri: “ A Survey of Autonomic Computing Systems:, ICIIIP 2006-Adelaide, IFIP International Conference on Intelligent Information Processing, September 2006.
25. *Plus more than 100 articles in Farsi magazines, seminars, conferences and etc. about the wide varying subjects of ICT.*

## **Designs and Implemented Projects**

Designer and Implementor of more than 50 important ICT projects/contracts in Iran, such as the Iranian Wide Area Research Network implemented between 78 universities, and the Virtual eLearning Network between 33 cities for the Iranian Data Communications Company for Video Streaming the DCI training courses.

Currently, I am the prime on three ERP projects and 2 RFID automation subsystems.

## **BOOKS**

1. “ The Internet Network In Iran and the World” , ISBN: 964-6426-21-2, N. Modiri, S. Noorpahnah, B. Shaker, First Edition, Hoormozgone University Press, 1997.

2. “ The Internet Network In Iran and the World” , ISBN: 964-6426-21-2, N. Modiri, S. Noorpahnah, B. Shaker, Second Edition, Hoormozgone University Press, 1998.

### **Seminars and Consultancies**

I have conducted more than 50 major seminars in Iran about ICT subjects and I have had consultancies contracts with more than 20 organizations and companies on ICT subjects.

### **Current Teaching Status**

Currently, I am:

- The head lecturere for 5 PhD students in a state university, conducting their PhDs in Software Engineering, Software Metrics and Network Design and I am conducting their Advance Software Engineering course.
- Supervising 5 MSc projects in Software Engineering and Network Design in 3 different universities.
- Consultant supervisor of 3 MSc projects and 3 MSc seminars.
- At Zanjan University, I have two class, Interent Engeeneering and Network Design, plus I am supervising 15 BSc and 10 job-training courses.

### **ADDRESSES**

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