

# Farimehr (Fari) Schlake

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## QUALIFICATIONS SUMMARY

A results-oriented accomplished scientist offering comprehensive well-rounded academic, research, management and engineering expertise. An enthusiastic professional with an unmatched diverse and proven leadership portfolio. 20+ years of wide-ranging experience acquired on research, DOD and commercial projects in US and Germany.

### Key Core Qualifications

- Enthusiastic and charismatic teacher & mentor
- Strong creativity with determination to transform ideas into innovations in research
- Team leadership with drive to stimulate individuals to accomplish growth at all levels in diverse settings
- R & D Project Management
- Contract Negotiation & Management
- Budget Planning & Implementation
- Strategic Business Planning & Development
- Market Research & Competitive Analysis
- Government Sales Management
- Positive, Success Driven and Goal-Oriented
- Strong Systems Design, Analysis & Modeling
- Product Development
- Large Scale Software Development
- Technical Support Management
- Customer Service Management
- Small Business Entrepreneurship
- Organization & Process Improvement Management
- English, Persian and German languages: Excellent oral and technical writing skills
- Spanish and French languages: Beginner
- US Citizen

## EDUCATION

- **Currently Last Year Ph.D. Candidate, EE**, Bradley Department of Electrical and Computer Engineering, **Virginia Tech**, (2008-Present): GPA 4.0, Summa Cum Laude, Expected Graduation: Spring Semester 2012.  
Current Research Focus: “*Game & Mechanism Design Theoretic Autonomous, Optimal and Efficient Network Security Protocols*”.  
Main focus is a cross-disciplinary approach to achieve natural equilibria in multi-agent network systems through the convergence of communication network protocols, cyber security, mathematical modeling theories and social behavioral sciences concepts. The main purpose is to design autonomous optimal, efficient and secure network protocols and system-wide mechanisms making mathematical and theoretical models more realistically implementable for real-life scenarios and solving real-world complex problems.  
Publication:
  1. Farimehr Schlake, PhD Dissertation, “Optimal Consumer-Centric Delay-Efficient Security Protocols in Multi-Agent Networks - A Game & Mechanism Design Theoretic Approach”, August 2011.
  2. Farimehr Schlake & Lamine Mili, “Efficient Network Security as a Strategic Game”, to be published in the International Journal of Critical Infrastructures 2012.
  3. Farimehr Schlake & Lamine Mili, “IPSEC-O: Optimal, Delay-Efficient and Socially Desirable, A Mechanism Design Theoretic Approach, 2011.
- **Ph.D. Candidate, EE**, University of Siegen, University of Duisburg-Essen Germany (1999-2002) PhD (Pending Defense)  
Research Focus: “*Adaptive Security Protocols Guaranteeing QoS in Broadband Networks*”.  
Conducted Research in the areas of Quality of Service (QoS) and Security Protocols in IP and high-Speed broadband networks – in specific ATM. Also designed and developed new QoS efficient security protocols and a simulation software application. The software is designed with a Graphical User Interface (GUI), in particular a Single Document Interface (SDI), based on Windows Operating System (Win32) in C++ object oriented programming language using Microsoft Foundation Classes (MFC). It is ca. 14,000 Lines of Code.  
Publication:
  4. Farimehr Schlake & Christoph Ruland, “A Security Protocol Providing QoS in ATM networks”. Published in conference proceedings Vol. 2, p. 933-937 of *The 8th International Conference on Communication Systems*”, ICCS2002, IEEE conference, in November 2002.
- **M.S. Electrical Engineering**, equivalency, George Washington University, University of Duisburg-Essen and University of Siegen, Germany (2002)
- **B.S. Electrical Engineering**, Darmstadt University of Applied Sciences in Germany (1990)

## PROFESSIONAL HISTORY

### **FARI ENTERPRISES LLC** **Founder, CEO, President**

**Great Falls, VA (2006-Present)**

The company serves as an umbrella organization for my three key entrepreneurial endeavors:

- My technical and scientific consulting, Paintings & Fine Arts Creations and “Smartickles”: Offering kid’s innovative education in technology, arts and sciences

### **IEEE Washington Section** **Director**

**Washington, D.C. (2008-2009)**

- Elected as a director of the IEEE Washington Section.
- Supported the sections efforts to coordinate, and support technical, academic and social activities, seminars and conferences for around fifteen thousand engineers in the greater Washington DC metropolitan area.

### **IEEE Engineering in Medicine and Biology Society NoVA/ DC Chapter** **Chair**

**McLean, VA (2007)**

Was elected as chair for the EMBS NoVA/DC chapter for the year 2007 as the first chair after some years of deactivation.

- Revitalized the chapter and promoted member participation through organization of several technology transfer events and conferences.
- Gained partnership and sponsorship of other IEEE Chapters and Societies to promote these activities. Established partnership and knowledge exchange with several NoVA technology associations.

### **STRAVIGANT LLC** **Co-Founder, President**

**San Diego, CA (2000-Present)**

Supervised strategic management consulting activities to multi-billion dollar companies and research organizations in Europe and US, as well as US Government.

### **NATIONAL UNIVERSITY**

**San Diego, CA (2001)**

**Adjunct Professor, School of Business and Technology**

- Taught a graduate course in applied data communications.

### **SIEMENS AG**

**Paderborn, Germany (1998-1999)**

**Project Manager, Siemens Business Services (SBS)**

- Managed the Y2K project. Identified potential problems by performing risk assessment.
- Developed resource requirement and allocation plans.
- Established milestones and monitored the progress compliance with the company wide policies and schedules by interfacing with other program functional groups.
- Large-scale client project management & development of web-based applications
- Elected to be the lead of our group in the new Network Security division.

**Research Project Manager in Product Development, C-LAB, Cooperative Communication Research Laboratory of Siemens AG & University of Paderborn**

- Performed project management as well as research & development for OpenDM database middleware software. OpenDM is a commercial product developed from the result of two PhD Dissertations.
- Performed marketing and technical product presentations on international conferences and exhibitions.
- Developed strategies to increase market share along with developing product price lists and producing literature and technical publications in both German and English.

### **MCI**

**McLean, VA (1997)**

**Consultant, Systems Analyst**

- Functional proponent: Performed Integration and System Test for the development of Local Loop Infrastructure.

### **BELL ATLANTIC (now VERIZON)**

**Silver Spring, MD (1995-1996)**

**Programmer Analyst / Systems Engineer**

- Worked as a functional proponent on the development of Project Live Wire Client/Server Architecture.

- Responsible for seamless operation of Bell Atlantic's most critical database interface SOAC (Service Order Analysis and Control) Interface in its developmental phase

**CACI INTERNATIONAL INC.**

**Arlington, VA (1993-1997)**

**Systems Analyst, Team Lead, Project Manager Assistant**

With IBM FEDERAL INC., LORAL FEDERAL INC., LOCKHEED MARTIN as prime contractors; *Sustaining Base Information Systems (SBIS)*, a \$474 Million estimated US Army contract: Worked on different stages of the SBIS object oriented large scale Software Development Life Cycle (SDLC) in a UNIX based environment using Visual Basic, ADA and SQL on Oracle RDBMS.

- Performed Project Management duties on the Military Integration Resource Systems (MIRS) project.
- Established milestones, developed resource allocation, budget and scheduling plans interfacing with the IBM, Loral, Lockheed Martin and Army senior management.
- Selected to be CACI representative in various Army PMO SBA Meetings and performed several technical presentations for the project.
- Team Lead for the final software testing effort of the first application delivered to the government by SBIS.
- Performed final software testing of the two critical budget applications (B-ISM and B-MISM) of SBIS.
- Lead for creation of various final testing technical reports to the Army.
- Started as a functional proponent in the requirement analysis and gathering phase implementing Joint Application Design (JAD) Methodology.
- Facilitated Prototyping sessions with the clients.
- Developed test plans, test cases and test data for manual and automated testing.
- Researched and developed the standards for the Unit Test and Software Development Test stages of SBIS.

**ERA 2000 COMPUTERS INC.**

**Arlington, VA (1990-1993)**

**Government and Corporate Sales Manager:**

- Managed sales staff and operations.
- Responsible for major government and corporate accounts and acquisition of proposals.
- Designed and performed sales staff and customer technical training classes for new products and technologies.
- Conducted market research and cost analysis to establish new strategies to maintain competitiveness.

**Operation & General Manager Assistant:**

- Supervised total operations and staff as assistant to the General Manager.

**Technical Support Manager:**

- Established a new technical support department in a separate location and directed substantial growth.
- Supervised and managed technical staff and operations: customer service, returns, purchasing, sales, production, assembly, test and quality control of PCs. Also performed computer networks hardware services and customer technical support.

**BREHM und JUNG & EFE GmbH**

**Darmstadt, Germany (1989-1990)**

**Embedded Software Engineer**

- Designed and developed embedded software for medical devices & test software and hardware to test PCBs in C and PLM

**Selected AWARDS and HONORS**

2007, 2008, 2009: IEEE "Certificate of Appreciation"

2000: DFG, German Science Foundation Ph.D. Scholarship Nomination

1997: George Washington University MS Fellowship

1996: CACI "Certificate of Achievement"

**Selected TECHNICAL SKILLS**

Mathematical Modeling: Game & Mechanism Design Theory,

Wireless Networks, Security Protocols, QoS, IP, ATM, Social Networks, Cloud Computing, Cognitive Radios, 4G, LTE

InDesign, Photoshop, MS Office & Windows, UNIX, Dos, AIX, JAVA, C++, C, PERL, ADA, SQL, PLA, Fortran, Assembly, Shell Script, .NET, Matlab, MS Visual Studio, CAD, and more