

## **SUNIL FOTEDAR**

15902 Highway 3, Apt #1523, Webster, Texas 77598

Voice: (281) 645-6622; Email: [sunilfotedar@yahoo.com](mailto:sunilfotedar@yahoo.com); Website: <http://SunilFotedar.com>

### **TECHNOLOGY MANAGEMENT**

#### **Systems Engineering, Enterprise Infrastructure, IT Infrastructure**

Multifaceted, resourceful technical management professional with distinguished career spanning several industries (space, telecom, e-commerce, energy) and supporting systems architecture, system implementations, technical operations, and resource allocation for leading institutions and high-growth technology infrastructures. Spearhead teams in the business and systems analysis and design, re-design, and launch of leading-edge solutions driving record-setting accuracy. Able to build relationships with strategic partners and stakeholders, as well as consensus across multiple organizational levels. Savvy, resourceful leader demanding and delivering excellence in enterprise management systems and IT operations.

---

---

Project Management • Technical Leadership • Systems Architecture & Design • Business Analysis  
Testing and User training • Excellent Analytical and Communication skills

---

---

### **PROFESSIONAL EXPERIENCE**

#### **GB TECH, INC., Houston, Texas • 2008-Present**

Subcontractor to Boeing Space Company, supporting NASA's Space Shuttle Program

##### **Engineer Specialist – Systems Safety**

Performed System Safety Engineering risk assessments and analyses for the Space Shuttle Orbiter to address systems capabilities, failure modes, effects, causes and controls. Planned and conducted such analyses given specific direction and prepare system safety documentation. Worked with internal and external customers and give presentations on a regular basis.

##### **Key Accomplishments:**

- Tracked performance and updated deliverables like orbiter hazard reports for Space Shuttle Program Risk Documentation.
- Assisted in the development of tools, processes and training as part of the Orbiter System Safety Engineering Team.

#### **UNITED SERVICES AUTOMOBILE ASSOCIATION, San Antonio, Texas • 2006-2007**

Banking and Insurance Company serving Military community

##### **Senior IT Software/Systems Programmer**

Technical management of IT projects of software and hardware utilized in managing Logging Framework for the J2EE Enterprise architecture. Orchestrated projects and programs to completion, overseeing all aspects of architecture, designs, resource allocation between offshore and onshore teams, and systems engineering. Liaised with technical fellows and managers to ensure project completion as per stipulated goals.

##### **Key Accomplishments:**

- Conducted on-site analysis and design changes to meet the needs of the customer
- Managed and trained on-site and offshore resources
- Worked both independently and in a team-oriented, collaborative environment. Conformed to shifting priorities, demands and timelines through analytical and problem-solving capabilities.
- Reacted to project, scope and requirements adjustments and alterations promptly and efficiently. Flexible during times of change.
- Elicited cooperation from a wide variety of sources, including upper management, clients, and other departments.

**SILOSMASHERS, Gambrills, MD • 2005-2006**

IT Consultancy for Centers for Medicare & Medicaid Services (CMS), Baltimore, MD

**Senior Business Analyst**

Provided IV&V and Integration Testing support to CMS for Medicare Modernization Act (MMA) (for Parts C and D) operations at a sufficient level of detail to communicate the end-to-end business processes.

**Key Accomplishments:**

- Tracked and monitored MMA interface testing activities for all systems.
- Identified discrepancies in MARx testing activities.
- Assembled test plans, test cases and updated testing information from various MMA interface partners.

**POINTE TECHNOLOGY GROUP, Inc., Landover, MD • 2003-2005**

IT Consultancy for Lockheed Martin/Social Security Administration (SSA), Baltimore, MD

**Senior Software Requirements Analyst**

As technical leader, researched, captured and documented requirements and designed using J2EE architecture for Enterprise Technology Services Contract (ETSC), an internet-based application development contract with SSA.

**Key Accomplishments:**

- Provided technical expertise, support, oversight and needs analysis in functional areas such as, but not limited to, design and development of appropriate IT solutions and architectures, creation of information and decision papers on IT issues, assistance in the development of IT standards, review of logical and physical database and application design, change control and problem resolution, validation and stress-testing of IT solutions, facilitating the use of IT solutions by end-users.
- Researched current trends in Web Application Monitoring (WAM) technologies and COTS tools.
- Documented Detailed Functional Requirements (DFR), Detailed System Specifications (DSS), and Test and Validation Plan (TVP).

**KEY PERSONNEL, Tulsa, OK • 2002**

IT Consultancy for Risk Quants group, Williams Energy and Trading, Tulsa, OK

**IT Consultant**

- Validated Curve Models. Studied the migration of C code into MATLAB models for several energy curves for oil and gas (extrapolation and volatility curves models).
- Wrote MATLAB test scripts to validate the Curves.

**WORLDLINK INC., Richardson, TX • 2001-2002**

IT Consultancy for Samsung Telecommunications America, Richardson, TX

**IT Consultant**

Designed and developed a Java-based GUI for a PC-based Neighbor List Tuning Tool (NLTT) to analyze PSMM messages to propose a better neighbor list for the CDMA network. This tool read and filtered the messages based on tunable parameters to produce a new neighbor list.

**ALCATEL USA, Plano, TX • 1996-2001**

A telecommunications company, formerly DSC Communications Company with more than 100,000 erstwhile employees worldwide.

**Senior Software Engineer – Level V**

Participated in a team effort to develop a test automation tool (WATT) running on PC SCO Unix to test switch software and protocols.

**Key Accomplishments:**

- Designed and developed PC tool (WATT) to automate the testing of call processing scenarios on DSC/Alcatel Switches using telecom protocols like Inband, ISDN, SS7, AIN, as well as Backup-D Channel Testing, OSI CDR collection for billing purposes,
- Extensively employed TCP/IP Network Programming to make programs on different Unix platforms to communicate data and messages.
- Took a lead in documenting Systems Requirements and Detailed Design documents and wrote User manuals for each task assigned.

**NORTEL NETWORKS, Richardson, TX • 1994-1996**

A telecommunications company; formerly Bell-Northern Research (BNR) with more than 100,000 erstwhile employees worldwide.

**Member of Scientific Staff - Grade 6**

Developed Table Control (BNR-proprietary database) for a Call Monitoring Project (GSM) for the Govt. of Taiwan.

**Key Accomplishments:**

- Documented Functional and Systems Requirements, for Call Interception Configuration and Subscriber Tables GCALLINT and GINTCNFG (GSM). Developed Table Control software in BNR-proprietary language PROTEL.

**UNISYS SPACE SYSTEMS CO., Houston, TX • 1993-1994**

Subcontractor to Rockwell Space Company, supporting NASA's Space Shuttle Program

**Software Engineer Specialist**

- Documented Systems Requirements for Payload and Vehicle Subsystems Integration for Space Shuttle data.
- Developed the Output Display Script for Space Shuttle Program.

**McDONNELL DOUGLAS SPACE SYSTEMS CO, Houston, TX • 1990-1993**

Contractor to NASA, supporting Space Station Program

**Senior Engineer**

- Developed software to provide Inter-Process Communications (IPC) using AT&T's message queues, shared memory, and semaphores, between several processes on a UNIX machine in order to monitor and diagnose various sensor faults in real-time in a Thermal Testbed - a Space-Station project.
- Developed a Multimedia application (in ToolBook on a PC) for Verification and Validation (V&V) of Expert Systems.

**LOCKHEED ENGINEERING & SCIENCES CO, Houston, TX • 1987-1990**

Contractor to NASA, supporting Space Engineering & Science contract

**Senior Associate Engineer**

- As project leader, developed methodology and demonstrated the Position Reference System (PRS) to JSC/NASA successfully. PRS was designed to test and calibrate a Laser Docking Sensor by using CCD cameras as sensors. **This project generated four technical reports and one technical publication and a performance-based promotion.**
- Developed a low-level I/O communications software using RS-232 protocol on APA512S machine vision processor and a PC to provide interface with vision subsystems of Extra-Vehicular Activity (EVA) Retriever.

## EDUCATION

### Master of Science, Electrical & Computer Engineering

Rice University, Houston, TX

### Master of Science, Applied Mathematics

University of Houston at Clear Lake, Houston, TX

### Bachelor of Engineering, Electrical Engineering

R.E.C. Srinagar, Jammu & Kashmir, India

## TECHNICAL SKILLS

**Operating Systems:** Sun/Solaris Unix, Linux, SCO, Mac OS, HP-UX, VMS, Windows XP/2000

**Languages:** C, C++, Java, J2EE, JSP, WSAD, UML, HTML, JSP, MATLAB, Perl, csh/Korn Shell

**Tools:** IBM WebSphere Studio Application Developer (WSAD), OOA&D, IPC, RPC, Unix Network Programming, Low-level Asynchronous Serial Communications Programming, *InstallAnywhere*, FTAM, GUI Tools (XVT, GPIIP, G2 Expert System, Multiple Menu-System), QuickPlace, LiveLink, SharePoint

**Software:** MS Project, MS Word, MS Excel, MS Power Point, Visio, MS FrontPage, Adobe Photoshop

**Databases:** Oracle, UDB, DB2, MS-SQL, Nortel-proprietary database Table Control

**Protocols:** RS-232, Inband, ISDN, SS7, AIN, GSM/CDMA

**Hardware:** Sun Systems, Compaq, HP workstations, IBM Systems

**Version Controls:** RCS, Microsoft Visual Safe Source, SDE (variant of Clear Case), MKS

## HONORS

- Boeing's Spirit of Cook – Finds a Way Award (May 2009), Houston, TX
- Performance based promotion at Alcatel USA to Sr. Software Developer V position (June 2000), Plano, TX
- Night Out Award at DSC Communications Corporation (June 1997), Plano, TX
- Best Paper Award in Robotics and Experts Systems (ROBEXS' 1989) conference, Palo Alto, CA
- Performance based promotion at Lockheed to Sr. Associate Engineer position (Fall 1988), Houston, TX
- Several commendation received at Lockheed for presenting technical papers at ROBEXS'89, JAIPCC'89, and ISA Conference'88
- Twice Gold Medalist for standing first in the statewide high-school examinations

## MISCELLANEOUS

- US CITIZEN, eligible to work for any employer, open to relocation and travel
- NASA Clearance - ability to obtain Interim and/or Final Clearances (Post Start)
- CEO, Chairman of Board and National President of Kashmiri Overseas Association, Inc. (koausa.org) for the term 2007-2008, a non-profit, tax-exempt socio-cultural organization registered in Maryland, USA. Its purpose is to protect, preserve, and promote Kashmiri ethnic and socio-cultural heritage, to promote and celebrate festivals, and to provide financial assistance to the needy and deserving.
- As a web curator, developed and maintained websites for several non-profit associations on a volunteer basis.