MALINI SRIKANTARAJEURS
(408) 393-7721, malini_urs@msn.com
https://www.linkedin.com/in/malini-srikantarajeurs

SUMMARY

Obtain a respective career wherein my management, organizational and professional expertise will prove effective for the growth of the organization.

Over 20 years+ of progressive leadership of Software Product Development and Project/Program Management. Extensive experience in Global Product Development and Management directing both on-shore and off-shore teams. Skilled at collaborating effectively with both Software and Hardware Teams for success. Extensive experience in handling Large Scientific Instruments Data, Data Storage, Analytical Data Analysis and Instrumentation/Acquisition/Device Driver.

Excellent organizational and analytical skills and the ability to lead projects and get results. Highly skilled at managing projects in dynamic environments; Architecting and managing the product development using formal design methodologies and structured development process. Adopt systematic approach to problem solving and effectively analyse results and implement solutions. Dedicated and committed, willing to take on challenging roles, tough assignments and work through tight deadlines. Ability to prioritize and effectively schedule work under pressure; develop and manage budgets, develop cost for projects, and perform within budget limitations. Effectively communicate and tailor updates for upper management and stakeholders.

Strong Leadership in mentoring and coaching teams, architecting & designing solutions. Excellent communication skills teamed with the ability to develop rapport with employees and peers. Poised and confident in dealing with individuals at all levels. Dedicated to building a highly-motivated team for developing, improving productivity and quality. Excellent oral and written communication.

Highly organized & efficient, a flexible & versatile team player who will work hard & excel in any environment. Impressive work ethic, reliable, dependable & conscious of duties and responsibilities. A positive approach to all tasks & pride in achievements has resulted in many successes. The ability to form good relationships with both peers & staff is central to my character.

SKILLS AND TOOLS

Languages	C#, WCF, WPF, Visual Basic .NET, C++, Visual C++, VB, UML, Java, SQL, VBA, COM, ATL/DCOM, ADO, STL, MFC, XHTML, HTML, HTML5, CSS, JavaScript, Perl, XML, XSD, XSLT, ASP.NET, JSON
Technologies	SAAS, SOA, Web applications, .NET Framework, OOD and OOP, Design Patterns, Test Driven Development, Multithreaded/Distributed Architecture, SQL Server & Data Access, UI and Graphic Design, Web, Remoting, Rational Rose, Visual Modular, ODBC (DAO), RDBMS AWS Cloud technologies like S3, EC2, DynamoDB, No SQL, Lambda, Security, Mobile Apps
Operating Systems	Win7, Win XP, Win 2000, Windows NT, MS-DOS, Unix & LINUX (comfortable)
Databases	ORACLE 11g, 10g 8i, MySQL, SQL Plus, MS Access, SQL Server
Tools	Atlassian, Team Track, Clear Case, PVCS, MS SourceSafe, Bounds checker, AQTime, MKS toolkit, NUnit, Visio, Star UML, PowerPoint, Eclipse, GIT
Project / Program Management	Agile, Waterfall, Iterative, Kanban, Scrum. Tools – JIRA, Microsoft VSO, VersionOne, MS Project, Excel

EDUCATION

● MS in Engineering Management and Leadership (June 2010, GPA 3.96), Honors, Santa Clara University, USA
● BE in Computer Science, Honors, Bangalore University, India (www.bmsce.ac.in)

EXPERIENCE

1. **Magic Leap - Sunnyvale, CA, USA (Jan 2020 – April 2020) as Senior TPM contract, Computer Vision Team, SW PMO**
   Magic Leap 1 is a wearable spatial computer MR (unlike AR/VR) that brings the physical and digital worlds together as one!
   ● Drove solutions for program issues and risks
   ● Led multiple teams like Graphics-Perception, Iris Recognition and OOBE teams across a broad range of platforms
   ● Focused teams on business objectives and tracked progress to ensure project milestones were completed on time and with the desired results.
   ● Worked closely with Cross functional Product Marketing, Support, Quality & Testing teams
   ● Administered to the SW Process, Improve and Maintenance
   ● Provided regular program status to senior executives and leadership team
   ● Liaison for Jira Administration b/w SW group and IT

- Wiki Confluence Administration for the SW group

2. **Agilent Technologies – ACG, CA, USA (Sep 2013 – Aug 2018) Sr SW Design Architect | Sr TPM**

   2.1. **Remote Advisor (RA) Platform Refresh (Release 1.1, 1.0),** September 2013 – 2015 – August 2018

   RA is an *Internet of Things* (**IoT**) based advanced Instrument Management Enterprise Platform for labs. It provides real-time instrument service support & asset reporting via secure instrument software & networking, to maximize laboratory productivity.
   - Champion the deployment & use of Project Management Agile Visual Studio Online tool to the entire ACG R&D group. https://spark.it.agilent.com/docs/DOC-34610 & https://spark.it.agilent.com/docs/DOC-41878
   - Managed teams of both offshore engineers and onshore resources (*~ 8-10 resources*)
   - Managed and worked with the Agilent IT team and Midtech team to define and build the servers infrastructure, network topology within the Colorado Springs Data Center (Gateway, Enterprise and Database servers)
   - Liaison with 3rd party Axeda SW professional support team for the implementation of Axeda 6.8 Enterprise Platform
   - Worked closely with Cross functional Product Marketing, Support, Quality & Testing teams to create product requirements and for regular reviews
   - Provided regular reports to Management giving insight of overall development (*VSO and Power BI online reports*)
   - Lead the onshore team for successful installation of Axeda Enterprise platform, third party software (*Linux Enterprise Servers, Web Portal, Active MQs*)
   - Lead the PSL offshore development team for successful customization of Axeda Enterprise Platform (G*roovy Scripts, JavaScript, Java, HTML5, REST APIs*)
   - Lead the PSL offshore development team to architect and develop the Gateway components, Gateway status monitor in Open Lab GUI design style (*WCF, WPF, C#*)
   - Lead team & hands on for auto software installations from AWS Cloud (*S3, DynamoDB, No SQL etc*) to customer's locations
   - Helped in bringing on board three new senior engineers.
   - Hands on experience with Gateway service and status UI (*GUI Design Studio, WCF, WPF, C#*)
   - Hands on experience with Enterprise Portal & Database customizations (*Linux, Groovy Scripto scripts, Oracle DB*)
   - Lead the successful Integration of Agilent ICPMS Instrument into RA, coordinating with Agilent Japan ICPMS hardware Team
   - Lead the successful Integration of Lab Advisor Relay Service into RA, coordinating with Agilent WAD Team

3. **Agilent Technologies - LSAG, CA, USA. (March 2001 – September 2013) as Software Technical Project Lead**

   3.1. **VOYAGER – Mass Hunter (MH) Acquisition for QQQ instruments, January 2010 – September 2013**

   Mass Hunter for QQQ instruments is designed for very high sensitivity & productivity. It is used for quantifying pharmaceutical candidates, measuring trace-level environmental or food contaminants, or confirming biomarkers.
   - Successfully directed the high-profile Triggered MRM program with requirements gathering, schedule estimation, risk mitigation to meet scheduled date. Ensured generation of required project documents and code deliverables. Controlled changes to project scope and baseline.
   - Directed activities for complex architecture solutions, XML data mapping, messaging, user interface, change management, functional & performance testing, and production support.
   - Controlled project review and approval process for Functional Specifications and Interface documents
   - Collaborated effectively with the hardware engineers' team for a successful integration of driver with firmware & hardware
   - Communicated frequently with internal customers to acquire and maintain a detailed level of application knowledge as well as to effectively communicate user requirements to the development and firmware teams.
   - Rapidly learnt Version One (Agile) for project requirement management
   - Coordinated with QA team for planning & testing of various releases and service pack releases
   - Served as liaison b/w Customer Support, Chemists and Product teams to address various technical issues and provide feedback for improving quality of product.
   - Provided regular reports to Management giving insight of overall development
   - Led the platform migration and integration from PICARD to VOYAGER platform.
   - Hands on experience with Device Driver layer (ATL-COM, C#)

   3.2. **PICARD – Mass Hunter (MH) Acquisition for QTOF & TOF instruments, November 2006 – Jan 2010**

   Mass Hunter software for QTOF/TOF instruments is designed for very high data acquisition bandwidth/large data objects, high mass accuracy, high mass resolution, high sample throughput with high performance. These instruments are primarily used by scientists (chemists, biochemists) in the life science industries.
   - Directed the software solution for Hubble 6540 instrument providing technical and project leadership for the new product development.

- Assessed and produced effort estimates, software requirements, technology/architecture designs & schedules
- Prepared and delivered formal project reviews. Identified, tracked and escalated project issues resulting in substantial cost savings
- Established quality standards for deliverables and quality assurance testing procedures. Tracked percent complete for project activities, resolved problems and communicated outcome to management
- Communicated with other R&D hardware & firmware teams to ensure requirements were understood and met.
- Serve as liaison b/w Customer Support teams, Chemists and Product House to address various technical issues and provide feedback to product for improvement of quality.
- Provided regular reports/updates to Management giving insight to overall product
- Hands-on experience with Device Driver layer (ATL-COM, VC++, Java) to acquire large data & store it into MH data format.
- Successfully re-factored and redesigned Device Driver layer to add support for instrument models - 6540 (QTOF-Hubble), 6230 (TOF-Seiko), 6530 (QTOF) and Agilent Jet Stream Ion source.
- Collaborated effectively with the hardware engineers' team for a successful integration of driver with firmware & hardware
- Successfully re-architected & redesigned the Data Writing Layer (C#) to use the generic MH data writer component and met performance, reliability, scalability and maintainability goals
- Developed TCP/IP Socket interfaces to send and receive data b/w the Driver and Firmware (Linux)

3.3. ARCHER – Mass Hunter (MH) Data Analysis Platform and Qualitative Application, August 2004 – Nov 2007

Generic ARCHER is a data analysis software platform providing components for reading and processing data for both Qualitative and Quantitative applications of mass spectrometry and chromatography data.
- Part of the System Analysis and Requirements gathering for Archer Platform
- Directed the design and development of Generic Data Storage System for different Chromatography and Mass Spectral Data from instruments like QTOF/TOF/QQQ/Q.
- Architected the design and development of Data Management Layer (C#)
- Directed technical teams in India.
  Led an offshore team for development of Translators to translate competitor data formats like ABI's Analyst WIFF format, Bruker's Trap format, Agilent's Chemstation format etc.
  Led an offshore team for the design and development of Generic Data Writer Component (C#)
- Controlled documentation review and approval process for Functional Specifications and Interface documents
- Developed and maintained a detailed WBS. Identified and established the critical path activities on the WBS.
- Technical contact for Agilent 3rd party customers using Data Access APIs to read raw data from the MH data files. Design and Develop the APIs to the compatibility of Agilent instruments with other vendor's data systems.
- Designed and implemented mathematical and domain-specific data analysis algorithms for analysing spectrum and chromatogram data in the Data Management Layer
- Design and implemented the feature to export data into XML based MzData format

3.4. PICARD – Instrument control software for Time of Flight (TOF) Mass Spectrometer, March 2001 – July 2004

PICARD is a data acquisition or instrument control platform for API-TOF, QTOF and QQQ LC/MS systems in Pharmaceutical Discovery and Proteomics. It is designed for very high data acquisition bandwidth/large data objects, high sample throughput with high performance. It is primarily used by scientists in the life science industries.
- Led offshore team of software engineers for Worklist User Interface development
- Led the analysis, design and development of Worklist Data Manager and Control Manager Server (automation) Components using VC++ 6.0 ATL-COM on Windows NT
- Led the analysis, design and implementation of the below application add-ins -
  Empirical Formula Confirmation (EFC) report is a Data Analysis component developed using visual basic and VBA is an algorithm responsible for confirmation of molecular formulas and generation of reports using HTML.
  Protein Identification is a Data Analysis ATL COM server component responsible for the identification of input protein sequences in the spectrum data and generation of reports using XML/XSLT technologies.
- Initiated the usage of XML file writing. XML storage idea was conceived and spread across other projects
- Initiated & conceived the idea of *Protein Browser* application that was widely accepted by the team & marketing.

4. Agilent Technologies - LSAG, CA, USA. (April 2000 – March 2001) as Sr. SW Design Engineer – Contractor

4.1. ALANA - MSD Device Driver

MSD is a chromatographic detector that uses the technology of breaking up liquid chemical samples into ions, which forms spectrums of mass vs. response data.

- Analysis, OOD and Implementation of MSD device driver acquiring instrument data using VC++ 6.0, ATL-COM on Windows NT 4.0. Performed unit level, module level, and Integration level testing.

5. **Siemens Public Communication Networks Ltd, INDIA. (May 1997 to Mar 2000) as Software Technical Lead**

5.1. Management Information System (MIS)

MIS is a system that provides for receiving & storing of Statistical Data in Oracle database from the call centers (EWSD switches). The user interface provides for creation, generation & administration of stored data in the form of reports & graphs. MIS is developed using client-server-based technology.

- Led the team for development of components used for channelling of Data Processes from EWSD switches.
- Mentored team members in structured development, software design, testing techniques and in coding skills
- Analysis, Object Oriented Design, Implementation and testing of the modules
  Data Receiving module (ATL-DCOM) is used to support collection of data from multiple call centers over LAN.
  Data Processing module is the main processing module of various call centers data developed using ATL-COM.
  The Data Storage module exposes interfaces and supports storing data into the ORACLE database using direct ODBC calls.
  Graph module generates two-dimensional graphs using MFC-OLE and provides interfaces for selection of data from report and displays it in a graphical form.
  MIS Simulator is a test tool using VC++, MFC to generate/simulate data for offline testing of the MIS System
- Performed unit level, module level, Integration level testing.

5.2. GUI Localization Desk (GUILD)

GUILD is a tool used to translate resource files from one language to another. The resources are in the software applications written using Microsoft Developer's Kit. The translated data is stored in a translation memory database (Access'97) and provided to the translator as reference (hint). This ensures consistent GUI terminology for all products in the company. GUILD can be also used via network in a distributed client/server environment.

- Analysis, Object Oriented Design, Implementation and testing of the modules as described below developed using Visual C++ 4.2, MFC, DAO, MS - Access '97, PVCS on Windows NT 4.0
  Resource module provides a user interface for displaying resource strings for translation and processing.
  Resource Storage module stores the translation details into the Access database.
  Translated Data module displays the translated strings stored in the database along with the resource strings. It also provides interfaces to set up the hierarchy of the products/project definitions for resource files.

6. **Baysoft Private Limited, Bangalore, INDIA. (June 1995 to May 1997) as Software Design Engineer**

6.1. Payroll Processing System (Baypay – Financial Package with Tax Manager)

Baypay is a complete, scalable "Pay Processing Automation" solution for all organisations in India developed using Visual C++ 1.52, MS-Sourcesafe, MS-Access, SQL-Server database on Windows 3.11.

- Team member for Analysis and System Architecture. Designed for single & multi-user client server environments.
- Design, Implementation, preparing test cases and testing of various modules as described below
  Pay-Processing module retrieves the data stored in the database and processes the payroll information using MFC.
  Tax Computation module calculates Tax amount according to IT department rules and generates Tax Worksheet along with the Payslips using MFC.
  Housekeeping module does the Monthly & Annual processing to transform pay information to the next month/year. Data is stored into either MS-Access or SQL-Server database using MFC & DAO.

CERTIFICATIONS/ TRAININGS/ AWARDS

- Cloud Architecture: Advanced Concepts
- Program Management Foundations
- Creating Mobile Apps with HTML5
- Six-Sigma White belt certification.
- Agile/Scrum Training
- Crucial Conversation, Organization Savvy.
- Merit award in Physics and Chemistry (12th grade) & Merit award in Mathematics (10th grade)