**Vikas S Shah**

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Experienced CTO/ Group CIO, VP Technology, and Chief Architect providing solution and product strategy, pre-sales leadership, quality control, governance, and competitive positioning of products & services. Dynamic leader known for jump-starting product development, resolving technology issues and increasing revenues by 10% to 65% through the innovations, feature capabilities, publications, and patents.

Extensive exposure and intense involvement leading cross functional teams (5 to 118 onsite, nearshore, and offshore team members). Organization-wide profiling of teams and underlying ecosystem to execute technology advancements, roadmaps, and risk management in adherence to business goals for small to large scale enterprises (3 to 78 applications, solutions, products, and services).

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| --- | --- |
| Strategic technology planning  Product design and development  Real-time solution architecture and development  Vendor management & contract negotiation  Agile, lean, and SAFe practice leadership | Budget, risk management, and cost assessment  Emerging technologies and marketing  IT strategies and governance  Team building and program management  Business process management (BPM) and CRM |

**Work Experience**

[**Ernst and Young LLP,**](http://www.ey.com/) **Philadelphia, PA, USA Nov 2017 – Present**

***FSO Technology Advisory Team***

* Led vision to develop and integrate emerging technologies for compliance-aware and alliance-based products and services (1.5 to 5 years roadmap).
* Headed cross functional teams of architecture, development, integration, delivery, governance, and support of solutions and programs (~$450K to $75M).
* Reduced the development lifecycle by 35% by streamlining processes through the implementation of SAFe practices. Grew new service releases by 50% resulting in increased revenue in proportion.
* Direction to technology for both internal and third-party solutions and infrastructure components by enhancing and implementing programs, partnerships, policies, practices and systems to achieve business goals.
* Application portfolio management, risk management, cost-benefit analysis, and development of high available end-to-end (or omni channel) solution including Cloud computing, API Management, Microservices, Containerization, DevOps (CI/CD), IoT, Mobile application deployment, Big Data, AI/ML, UI/UX engineering, and Blockchain.
* Provisioned enterprise-wide cloud enablement under AWS, Azure, SFDC, and CloudHub. Streamline processes to onboard SaaS applications including Okta and Symantec CloudSOC for real-time user anomalies, threat analysis, and reporting.
* Led pre-sales engineering, solution architecture, software development, and branding digital platform innovation engine. 3-D secure v2 advancement and PCI DSS compliance between Merchant, Acquirer, Issuer, and Consumers.
* Publications to international conferences and Speaker at the global conferences & events. Represented EY capabilities, offerings, and accelerators to CIOs, CTOs, VPs, and stakeholders.

**Platform:** AWS, Azure, PCF, Spark AI, IoT Hub, Kubernetes, Docker, JEE, Paython, R-Model, Angular JS, ReactJS, Selenium, IBM Blockchain, Mastercard Blockchain, Okta, CloudSOC, Ansible, Jenkin, DevOps & CI/CD, Selenium, Jira, Adobe Marketing Cloud, SFDC Einstein, Dell Boomi

[**Wipro Technologies**](http://www.wipro.com/)**, Phoenixville, PA, USA Oct 2013 – OCT 2017**

***Chief Technologist (Connected Enterprise Services)***

* Created, established, and delivered technology vision and digitalization roadmap. Alliances, partnerships, pre-sales processes to approach prospects, RFPs, and workshops.
* Headed technology teams of application modernization initiative across North America. Leading and defining transformation strategy, operational policies and compliances, change management, disaster recovery, and execution plan for channel management.
* Strategic initiatives and 2 to 5 years roadmap (~$2.2M to $700M) for technology and integration in collaboration with Consumers, Marketing and Sales, Operations, Infrastructure, HR, Finance, Legal, Facilities, and Security (increasing revenue by 65%).
* Governance frameworks, best practices, and assessment methodologies for advancements of technologies and processes for IoT, SaaS/ IaaS/ PaaS, Big Data, Mobile applications, and API management.
* Define technology landscape, technical deliverables, approval processes, risk management, and continuous deployments. Strategizing digital factory model and budget.
* Derived products and partnerships to upgrade 36 components including policy administration, banking, payments & billings, portals, and various information management technologies.
* Estimation, project plan, and resource allocation. Technology & digitalization strategy workshop and roundtable discussion with customers, partners, vendors, and stakeholders identifying enterprise-wide assessment methodology and digital transformation.
* Technology management and migration strategy for IS (60K employees across the globe in 21 countries). Providing architecture trade-off analysis and roadmap.
* Big data Cloud architecture readiness assessment for ~457 nodes and average of 80 to 90 terabytes of daily transactions and data streams for analytics.
* RFP preparation for modernization of integration architecture introducing ESB, API management platform, Managed File Transfer (MFT) tool, and Business Rule Engine (BRE).
* Directing enterprise-wide technology modeling, governance, cloud enabled infrastructure, and services architecture. Implied OSIMM and ACG practices.
* 6 filed patents and 12+ publications to international conferences

**Platform:** UML, Visio, Microsoft Project Plan, J2EE, C#/.Net, PL/SQL, JavaScript, HTML5, CSS3, AngularJS, CentraSite Registry/Repository, Oracle SOA Suite 12c, Mobile Cloud Service (iPaaS), Oracle BPM, IBM Process Server 7.x, IBM DataPower Appliances, IIB 9.x, Oracle E-Business Suite 12.x, Dell Boomi, WSO2, MuleSoft API, APIGEE, JBOSS Drools, Redhat Openstack, Hadoop, Selenium, AWS, Azure, DevOps/ Jenkin, VersionOne.

**DNS Global Solutions Inc., Northridge, CA, USA Aug 2012 – Sep 2013**

***Chief Technology Officer***

* Securing world class emerging technologies development teams (18 team members) and outsourcing partner for Cloud computing, Big Data, and API Management for various strategic and entrepreneur initiatives.
* Digitization, technology specification, governance, SOX standards, and assessment to precisely enumerate enterprise services with autonomous business process lifecycle management for engaging consumers with diversified brands of products.
* Strategist to leverage and maintain business processes and appropriate separation of concerns for deliver diverse categories of technologies in adherence to acquisition.
* Assessed enterprise media frameworks to estimate and end-to-end delivery of technology modernization initiative (Esprit - Digital Asset Management platform).
* Provided selection criteria, rating, and contractual agreements for the integration strategy and tools/ technologies among different enterprise entities to streamline corporate operations and business continuity.
* Defined policies, processes, and governance model to provide amalgamated customer service solutions for disparate enterprise-grade product-lines ($MB in revenue and ~10K agents).
* Placed enterprise-grade technology framework to integrate heterogeneous data sources, platforms, and applications to Cloud (SaaS, IaaS, and PaaS).
* Derived agile management methodology (SCRUM/Sprint), metrics, and roadmap to develop as well as to deliver new product on a timely basis.
* Risk management processes and SWOT analysis to introduce novel product for the specific target market.

**Platform:** UML, Visio, Rally, Subversion, J2EE, C#/.Net, JavaScript, Progress DataDirect XQuery, JavaScript/ AJAX, SOAP/WSDL, SAML, JSON, Oracle 11i, Linux, Red Hat JBOSS AS 7.x and BRMS 7.x, Red Hat Openstack Cloud, Oracle Service Bus (SCA/ SDO), Oracle BPM, Hadoop & MongoDB, Wowza Media Server, Aspera, MediaInfo.

**Multivision Inc., Fairfax, VA, USA Aug 2007 – Jul 2012**

***Group CIO / VP – Technology & Engineering***

* Led programs to deliver canonical services (within SaaS environment) specification and retrieving appropriate query plan to increase data abstraction layer reliability and scalability, reusability, and performance across diversified platforms as well as multiple data sources. ([New York Life Insurance Co.](http://www.newyorklife.com/), Clinton, NJ)
* Evaluated business requirements and its implication to identify service level agreements (SLAs) and the requirement for data virtualization. Examples: Annuity Profile, Policy Details, and Legal Restrictions. Delivered data services of Customer, Agent, and Contract based on business requirements for the specific search criteria.
* Architected services as well as evaluated service interface granularity for the transformation of “as-is” enterprise to "to-be" SOA based infrastructure from provided business processes (Contributions and Sponsorships processes of [Allergan Inc.](http://www.allergan.com/index.htm), Irvine, CA).
* Assessed enterprise architecture (EA) frameworks and provided selection criteria. Adapted hybrid approach (TOGAF ADM and Zachman) and provided EA as well as SOA governance model.
* Managed EA operating model (EAOM) based on hybrid approach and updated EAOM periodically derivative of Proof-of-Concept (PoC) implementation (Credit approval and adjudication processes of [Wright Express](http://www.wrightexpress.com/), Portland, ME).
* Interfaces to accomplish custom codec facility within enterprise architecture framework including startup and initialization sequence. Architect event driven (EDA) synchronization between various components (or services) to accomplish real-time enterprise information integration (or portal) within service oriented content management infrastructure.
* Architected software services based solution to integrate Mobile Ad-hoc Network (MANET) and Optimized Link State Routing (OLSR) auto-configuration, messaging, and authentication within existing enterprise infrastructure ([Mars Electronics International](http://www.meigroup.com/usa/), West Chester, PA).
* Architected and integrated data model for real-time enterprise application online billing and payment utilizing Collaboration Server features and Portlets JSR 168 (2.5M consumers and ~500K users of [Entergy Corp.](http://www.entergy.com/), New Orleans, LA).
* Introduced accurate model to compute figures and amounts such as discounts, interest, tax rates, amortization, present value, ROA, ROI, TCO, proportions, percentages, mean, standard deviation.

**Platform:** Metastorm ProVision and BPM, Oracle SOA Suite 11.x, Oracle Data Service Integrator 10.3, HP Systinet Registry, UML, Visio, MS Project Plan, PVCS, IAR Workbench, CodeComposer 3.1, Linux, J2EE, XQuery, C/C++, JavaScript/ AJAX, DOMXML/SOAP, Oracle 11i, NetBeans 6.5, Oracle WebCenter, JBOSS Drools 5, Oracle Service Bus (SCA/ SDO), Oracle BPM, SUN JCAPS (JBI).

**Ian Martin Ltd. Nortel Networks Co., Brampton, ON. Aug 2005 – Jun 2007**

***Sr. Enterprise Architect***

* Analysis of business artifacts and corresponding requirements management to architect Provider Backbone Transport (PBT) for Nortel's enterprise service provisioning product.
* Integrated services based real-time content management to provide collaboration capabilities across enterprise product development team.
* Validation rule enterprise architecture framework and database design to the trunk provisioning facility of PBT configuration.
* Algorithm specification to Point-to-Multipoint (P2M) and Any-to-Any (A2A) service provision from the web enabled Topology view of enterprise network.
* Architected and developed interfaces of auto-discovery modules for Service Units (SUs) located to enterprise-wide infrastructure utilizing design patterns.
* Architected automated test tool capabilities to deliver configuration and primary images for the devices allocated to the network elements at remote customer locations.

**Platform:** Passport 86xx MES, 802.1ah, Windows 2000, Visual Paradigm UML, OpenWorkbench - Project Management, CVS, JBuilder, Objectstore database, J2EE, Spring MVC, C/C++, XML/SOAP, UDDI, WSDL, PHP, JavaScript, MySQL, Apache.

**Symphony IRI, Bangalore, India Dec 2003 – Jul 2005**

***Enterprise Architect (Manager)***

* Research and development to establish model driven architecture (MDA) based real-time enterprise information integration (REI) initiating “Advanced Technologies Group”(ATG).
* Analyze business requirements to accomplish process transformation for agent-based workflow within enterprise software infrastructure.
* Develop process execution engine element of REI simulation exploring impact to compare and contrast various enterprise architecture frameworks – Zachman, GERAM, PERA, TOGAF, and CIMOSA.
* Business cases and data flow diagrams to establish layered based event driven enterprise software architecture framework pertaining to data mining product intended for CPGN retail industry during point-of-sale (POS) – Information Resources Inc.
* SOA to achieve affective web enabled enterprise content management framework and web services for multiple clients pervasive to service industry.
* Software product development strategy specification document and classification to accomplish apposite project plan supporting CRM.
* Distinguish requirements and implementation to enhance scalability, performance, and reliability (SPR) capabilities of data engine.

**Platform:** Intel’s Itanium, HP\_UX, RUP, Requisite-Pro, Clearcase, BEA Weblogic, POSIX Multithreading, C/C++, MS-Project 2002, XML/ SOAP, J2EE, GME, PHP, MySQL, Apache, Siebel, Savvion Process Modeler/ Business Manager.

**Samsung, Bangalore, India Feb 2003 – Dec 2003**

***Project Leader (LE III)***

* Led data-plane application components architecture team of enterprise Ethernet switch/router infrastructure and ensured quality as well as schedule of product deliverables.
* Designed, developed, and reviewed layer 2 and 3 features and provided defect prevention plan (DPP) for the software artifacts realized during review process.
* Illustrated execution model of reconfiguration manager between different network planes lowering software development and maintenance costs of forwarding application component.
* Identified software development life cycle (SDLC) methodologies/strategies for improved performance and further guideline to team members analyzing impact of software design patterns.
* Incorporated CMMI level 4 and 5 to system software group. Metrics collection and risk tracking.
* CRM and plan microcode development activities.

**Platform:** IXP1200/IXP2400, MPC8240, Gigabit Ethernet, TCP/IP, MPLS, Linux, Windows NT, UML, Clearcase, Teja NP Design tool, MS Project 2000, PowerPoint, C/C++, J2EE.

**ICSS Inc – Intel Corporation, Hillsboro, OR Sep 2001 – Jan 2003**

***Lead Software Architect - Systems Analyst***

* Model driven architecture (MDA) of platform independent back-plane communication software between host board (Pentium) and StrongARM processor.
* Research to identify strategies of multi-processor communication through fast ethernet and PCI Bridge providing enterprise level agility as well as integrity to various categories of customers.
* Intricate architectural specification document with sequence and collaboration diagrams for the implementation of identified business artifacts.
* Design and development of enterprise user interfaces in terms of resource adaptor to evaluate effectiveness of the proposed customer centric solution.

**Platform:** IXP1200, i21555 PCI Bridge, i82557 Fast Ethernet, Pentium III, Linux, VxWorks, Windows 2000, Tornado, CVS, C/C++, J2EE – EJB.

**Ajilon Consulting Services, Somerset, NJ Aug 1999 – Aug 2001**

***Senior Software Engineer***

* Architect interfaces to signaling layer protocols of MPC8260 segmentation and reassembly (SAR) driver. Derive clustering mechanism by means of buffer management techniques for Tachion Networks.
* Requirements gathering and customer communication to accomplish VT-switch product specification document for Dot4’s Virtual Telecommunication Switch.
* Define CMM level 2 and 3 in the startup environment for better software realization and to establish formal software processes.
* Use cases and sequence diagram to integrate ATM soft switch modules. Design and develop digit analysis algorithm for MeGaCo software for S-Link Corp.
* Design synchronization scheme to start/restart process of radio network controller (RNC).
* Performance analysis of the buffer management technique by the surface of ATM traffic engineering (QoS) for Lucent Technologies, WCDMA Infrastructure - NTT DoCoMo.
* Identify software artifacts and integration strategy at the base station (BS) component of WCDMA infrastructure.

**Platform:** MPC860, TI DSP, Linux, VxWorks, Solaris, H.248, Q93B, Q2940, Rational UML, C/C++, Java, Perforce, Sablime, Clearcase, Visual Studio, Tornado, GCC.

**Fujitsu Nexion, Acton, MA. ATM Cell Switch May 1998 – Jul 1999**

***Software Engineer*** ***(Asynchronous Transfer Mode – Network Layer 2 Cell Switch)***

* Develop switch fabric booter software component of OC12/DS3 boards integrated with boot sequence of Real-Time Operating System kernel.
* Design test plans for cell-flow within the ATM-cell switch infrastructure including ASIC verification at software.
* Integrate diagnostic components and kernel considering multi-tasking/threading capabilities.
* Performance modeling and evaluation to identify enhanced marketing strategy.

**Platform:** AM29K Flash, VxWorks, CHORUS, Solaris, Tcl/Tk, C/C++, GNU, Clearcase, Frame Maker.

**Worcester Polytechnic Institute, Worcester, MA Aug 1996 – May 1998**

***Teaching and Research Assistant***

Active and Real-time Database System – Simulation Framework

* Assist undergraduate students to improve programming proficiency and proposals to improve quality of engineering courses.
* Enhance study of ATM-Network and ATM-LAN Emulation.
* Identify strategies for changing priorities of events at run-time to increase predictability of any active and real-time database systems (ARTDBS).
* Evaluate effectiveness of algorithms developing simulation model by exploiting parameters recognized in OBJECTIVE-benchmark intended for REACH (Texas Instruments).

**Platform:** UNIX, C++, Visual Basic4.0, HTML, SQL.

**Tata Consultancy Services, Mumbai, India Dec 1995 – Aug 1996**

***Assistant Systems Analyst*** - ***Positive Train Separation (GE-Harris)***

* Design and implement shared memory management module.
* Develop client/server model using rational rose. Software re-engineering.
* Requirements gathering and analysis to develop brokerage system for supply-chain industry classifying transactions into domestic/international market.
* Product testing along with documentation in favor of final release to customer.

**Platform:** VxWorks, QNX, Solaris, C/C++, Rational Rose (UML), POSIX threads, PowerBuilder 4.0, Visual Basic, SQL.

**SAMEER (Research Center– Gov. of India), Mumbai Jun 1994 – May 1995**

***Trainee Engineer***

Time Series Prediction Using Neural Network – Signal Processing

* Theoretical analysis of multilayer perceptrons (MLPs) offered by neural network, trained with various learning algorithms.
* Design and develop “time series prediction using neural network.”
* Experimental evaluation of diverse patterns pertaining to signal processing unit.

**Platform:** Solaris, C, Back propagation algorithm.

**Conceicao Rodrigues College of Engineering, India Jan 1995 – Arp 1995**

***Student*** – ***CSMA/ CD Simulation***

* Lead a team to analyze practical problems during design and development phases of LAN.
* CSMA/CD simulation model to evaluate performance of potential LAN.

**Platform:** Windows3.1, Turbo C++, PC x386.

**PATENTS**

CLASSIFICATION OF HETEROGENEOUS CLOUDS, US Patent ID: 15/432,570

PROVISIONING AN INDUSTRIAL IoT CONTROL FRAMEWORK OF DYNAMIC MULTI-CLOUD EVENTS AND DEVICES THEREOF, US Patent ID: 15/420397

METHOD AND SYSTEM FOR REGULATING REQUEST AND PROVISION OF RESOURCES FOR TRANSACTIONS IN A SMART CITY, US Patent ID: 15353401

IDENTIFYING OPERATING MODES OF COMMUNICATIONS IN MOBILE-EDGE COMPUTING ENVIRONMENT, US Patent ID: 15/232,578

PERFORMING DYNAMIC ORCHESTRATION OF RULES IN A BIG DATA ENVIRONMENT, US Patent ID: 15/222,776

METHOD, SYSTEM FOR AUTOMATIC MONITORING, CONTROL OF COMPLIANCE OF OPERATIONS OF SMART CITY INFRASTRUCTURE IN REAL-TIME, US Patent ID: 15/178,863

**SPEAKER**

* Blockchain enabled Intelligent Trading Architecture for Smart City Ecosystem, Trading Show 2019, Chicago, IL
* Architecture Lifecycle Integrity of Reactive Metadata Models in Association of Cognitive Contextualization, [6th Annual Global Big Data Conference 2018](http://www.globalbigdataconference.com/santa-clara/6th-annual-global-big-data-conference/event-105.html), Santa Clara Convention Center, August 2018
* Blockchain Driven Pervasive Control Framework for Adaptive IoT Integration and Automation in Heterogeneous Cloud Environment, [Global Data Science Conference 2018](http://www.globalbigdataconference.com/santa-clara/global-data-science-conference/schedule-98.html), Santa Clara Convention Center, April 2018
* Challenges of Integrating Ubiquitous Industrial Internet-of-Thing (IIoT) in Enablement of Multiple Clouds, Speaker - [12th Annual Information Technology Professional Conference at TCF](http://princetonacm.acm.org/tcfpro/), March 2017
* Architecting and Evaluating Discrete Integration Services in the Advancements of Digital Technologies of an Enterprise, Speaker - [2016 IEEE/ACM 11th Annual Information Technology Professional Conference at TCF](http://princetonacm.acm.org/tcfpro/)

**Publications**

## Incremental Risk Chain Mapping Manager and Linker (iRCM2L): Blockchain Driven Dynamic Risk Chain Framework, 28th International Conference on Management of Technology, April 2019

## Multi-agent cognitive architecture-enabled IoT applications of mobile edge computing***,*** [Annals of telecommunications Volume 73 Issue. 7](https://link.springer.com/article/10.1007/s12243-018-0648-1?wt_mc=alerts.TOCjournals&utm_source=toc&utm_medium=email&utm_campaign=toc_12243_73_7)***,*** August 2018

## Deterministic Consumer Applications Enabled Policy Architecture of Mobile Edge Computing Ecosystem, 7th IEEE Annual [Computing and Communication Workshop and Conference](http://ieee-ccwc.org/), January 2017

* Ubiquitous Operational Governance Framework: Managing Consumer Mobile Commerce Active Index, [The 7th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference](http://www.ieee-uemcon.org/), October 2016
* Fragmented Architecture of IoT Services to Edge Relationship between Dimensions of Electronic Commerce, [2016 IEEE International Conference on Internet of Things and Pervasive Systems (IOT)](http://www.iares.net/IOT), September 2016
* An Integrated Framework to Quantify Strategic Diversifications in Real-time Enterprise: Industrializing Alliances of Big Data Architecture Patterns in Business Process Lifecycle, [International Conference on Information and Knowledge Management 2016](http://www.icikm.org/), July 2016
* Pragmatic Modeling of Pervasive Cloud Enabled Trading Architecture for Smart City Ecosystem, [International Conference in Smart Cities (ICSC 2016)](http://www.iares.net/SmartCities), September 2016
* An Integrative Methodology to Enable Compliance-aware Data Services: Accelerating Consumer Regulatory Governance Paradigms of an Enterprise, [The 13th Annual IEEE Consumer Communication and Networking Conference](http://ccnc2016.ieee-ccnc.org/), January 2016
* Configurable Role Based Concrete Architecture Layers: Constituting Business Process Aware Internet-of-Things Services’ Reference Architecture, [2nd International Conference on IoT as a Service 2015](http://iotaas.org/2015/show/home), October 2015
* Managing Inductivity of Digital Business Operations: Pervasive Scenario based Incremental Risk Governance Framework, [2015 4th International Conference on Business, Management, and Governance](http://www.icbmg.org/), December 2015
* Emerging Paradigms of Managing Digital Business: In Association with Factoring Incremental Risks, [2015 International Conference on Industrial Engineering and Management](http://www.iciem.org/), September 2015
* An Empirical Method to Derive Principles, Categories, and Evaluation Criteria of Differentiated Services in an Enterprise, [Advances in Computer Science: an International Journal](http://www.acsij.org/), Volume 4 Issue 4, August 2015
* Emerging Data Services Viscosity to Enrich Pivotal Capabilities of Interactive Enterprises: Towards a Lean Integration Architecture Approach, 2015 [4th International Conference on Information and Knowledge Management](http://www.icikm.org/), July 2015
* Assessing Continuity of Dynamics between Business Process Lifecycle and Integration Architecture: Emerging Paradigms and Characteristics, Wipro Technologies, October 2014
* Service Oriented Real-Time Enterprise Content Management – In Association with Business Process Integration, [International Conference on Enterprise Information Systems 2007](http://www.iceis.org/), June 2007.
* Managing Density of Requirements during ION Product Development, [IEEE – International Engineering Management Conference 2005](http://www.iemc2005.org/), Sept 2005
* Process Management during Real-time Enterprise Information Integration, [International Association for Management of Technology 2005](http://www.iamot.org/), May 2005
* Model Driven Architecture Based REI - An approach and impact on businesses, [International Conference on Enterprise Information Systems 2005](http://www.iceis.org/), May 2005
* Essential Characteristics of Process Transformation in REI, [Information Resources Management Association 2005](http://www.irma-international.org/conferences/2005/index.asp), Apr 2005
* Real-Time Enterprises Development Features with Anticipation of Information Change: Preliminary Findings, [IFIP 8.2 Organizations and Society in Information Systems 2004](http://www.ifipwg82.org/tiki-index.php?page=OASIS+Workshop+2004+call), Dec 2004
* Dynamic Behavior of Micro-architecture Based Network Processor’s Data Plane Feature Components, [International Conference on Information Networking 2004](http://www.icoin2005.or.kr/history/history.htm), Feb 2004
* Layered Architecture Based Embedded System Software Development of Network Processor’s Feature Applications, ACM [Winter International Symposium on Information and Communication Technologies 2004](http://www.cs.tcd.ie/publications/tech-reports/wisict04/tr1.html), Jan 2004

**Certifications**

***Reactive Architecture*** Lightbend, Inc.

***Risk Management*** IEEE

***Pre-sales*** Demand Management Inc.

***Power Messaging*** Corporate Vision Inc.

***Enterprise Architecture*** Metastorm ProVision Version 9

***CRA – SR&ED*** Scientific Research and Experimental Development

***Capability Maturity Model 5*** KPMG

**TrainingS**

***Digital Healthcare: Health APIx*** Apigee Inc.

***Internet-of-Things and Middleware*** WSO2

***API Management*** Axway

***Mobile Cloud Services (MCS iPaaS)*** Oracle Inc.

***Digital Solution Partner and Business User*** Adobe

***Data Services*** Oracle Data Integrator 11g.

***Agile SCRUM/ Sprint*** Rally Software

***Wind River System*** VxWorks, Tornado, and BSP packages.

***Unified Modeling Language*** Rational

***Sycamore Network*** SN6000, SN8000, SN16000, DWDM - OC48, OC192

**Education**

**Master of Science,** Worcester Polytechnic Institute, **Computer Science,** MA (05/1998)

**Bachelor of Engineering,** University of Mumbai, **Computer Engineering**, India (06/1995)

**ACTIVE MEMBERSHIP and COMMITTEE MEMBER**

International Association of Computer Science and Information Technology ([IACSIT](http://www.iacsit.org/))

Senior Member – Institute of Electrical and Electronics Engineers ([IEEE](https://www.ieee.org/index.html))

International Economics Development Research Center ([IEDRC](http://www.iedrc.org/))

Institute for Systems and Technologies of Information, Control and Communication ([INSTICC](http://www.insticc.org/Portal/))

IASA Global: An Association for all IT Architects ([IASA](http://iasaglobal.org/))

Chief Information Officer Forum ([CIO Forum](http://www.cioforum.com/))

Digital Risk Management Institute ([DRM Institute](http://www.drminstitute.org/))

European Alliance for Innovation ([EAI](http://eai.eu/organization/european-alliance-innovation))

International Society of Service Innovation Professionals ([ISSIP](http://www.issip.org/))