

LeeWare Development Consulting



Enterprise Architecture - Project Portfolio

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Understanding Enterprise Architecture

1.0 What is Enterprise Architecture?

1. Enterprise Architecture is the process of translating business vision and strategy into effective enterprise change by creating, communicating, and improving the key principles and models that describe the enterprise's future state and enable its evolution over time. EA is a team approach to unify common understanding while blueprinting future needs of the enterprise using architecture views.
2. The EA practice is a collaborative approach to conduct enterprise analysis, design, planning, and implementation leading to successful development and execution of business strategies. The practice applies industry best-practice principles to guide organizations through process, information flow, and technology alignment to accomplish business plans and strategies. The EA approach analyzes elements of the enterprise to identify, motivate, and achieve value-based, boundaryless business transformations.¹
3. John A. Zachman from IBM is the father of Enterprise Architecture Framework.²

2.0 Difference between EA and Project Management

1. It's unclear from the project management definition that the responsibility translates business vision and strategy into effective enterprise change to create, communicate, and improve key principles and models - the EA definition. From an information technology (IT) perspective, EA differs significantly from project management. EA includes non-IT analysis such as organizational and business process considerations - frequently conditions where IT doesn't play a role - EA also assists in the establishment

¹ https://en.wikipedia.org/wiki/Enterprise_architecture

² <https://www.zachman.com/resources/zblog/item/john-a-zachman>

of clear understanding of the business leaders - captured in standard form by the architecture. The skilled architect's knowledge of IT guides the business to executable solutions - this is why architects require a great deal of information technology experience.

2. EA is liaison and consultant to the business stakeholder and IT project management. Working directly for business leaders, EA creates an architecture to capture the business needs such as purpose, vision, mission, capabilities, business goals, scope, process, functional needs, success factors (objectives) and other business technical requirements to complete the business architecture. On approval, the business stakeholder authorizes delivery of the business architecture to IT project management. IT project management uses the business architecture to plan implementation (proposal development, contracting, coordinate resource needs, planning, outsourcing strategies, etc.). If IT project management identifies required changes to the business architecture deliverable, possibly due to technology considerations, strategies, etc., IT project management coordinates with EA (per guidance by the business stakeholder) to make necessary business stakeholder approved corrections or updates. During architecture collaboration sessions, IT project management participates to obtain better business understanding regarding architecture design considerations and other business conclusions drawn. Project management participation leads to a better-informed project manager regarding operational considerations.³

5.0 Observations and References

1. Enterprise Architecture is basically Management Information Systems by another name. The practice, aims and methods are the same. Both are effectively two aspects of Systems Engineering.
2. Like Management Information Systems (MIS) Enterprise Architecture defines the scope to be at the organization level.

6.0 Career Path

1. I studied Management Information Systems (MIS) in high-school. I started my career as a software developer. I developed a line of software applications which I sold through the mail and eventually sold my entire portfolio to an early Internet e-commerce site in exchange for royalty payments.

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<https://www.linkedin.com/pulse/understanding-roles-between-ea-pmo-rob-byrd?trk=hp-feed-article-title-like>

2. I moved into Technical consulting doing systems engineering, teaching a course in introduction to Microcomputers and Operating Systems. And working with small businesses. I joined a technical consulting company to work on high-profile corporate migrations.
3. I eventually signed on to a project with an ambitious company that was looking to build a service organization for the security industry. I spent 4,960 days helping this company achieve its business goals. Over the course of my career I have worked as systems engineer, Enterprise Architect and Technician for many private sector enterprises.

7.0 Select Experience

IT EXECUTIVE

Enterprise IT, Infrastructure, Operations, Leadership, Security, Applications

Strategic business leader with extensive diverse IT experience building state-of-the-art technology operations for start ups, turnaround and high-growth operations. Talented team builder and mentor who delivers user-friendly technology solutions that achieve/surpass user experience, business and financial goals. Business savvy professional who has saved hundreds of thousands of dollars in technology costs through strategic partnerships, collaboration and technical innovation. Systems thinker and trusted advisor to senior executives. 15 years in a leadership capacity. Exceptional skills in IT strategy, network and data infrastructure services, ISPs and telecommunications, operations management, enterprise architecture, vendor management, organizational development, project management, change management, 24x7x365 continuous operations, tier-4 data center infrastructure management, security, customer service, and organization transformation.

Specialties: Exceptional skills in IT strategy, infrastructure services, telecommunications, operations management, enterprise architecture, vendor management, project management, change management, security and organization transformation.

CORE COMPETENCIES

- Leadership & Talent
- Management Systems-Thinker
- Strategic IT Planning
- Methodical Problem Solver
- Diagnostic Reasoning
- Critical Thinker (INTJ)
- Vendor Management

- Emerging Technologies Budgeting & Cost Containment
- Security and Disaster Planning
- IT and Business Operations
- Professional Service Consulting

PROFESSIONAL EXPERIENCE

LeeWare Development Consulting, SP

1988 - Present, Greater Chicagoland, Privately held, Technical Management and Services Consultancy

Principal IT Consultant - Subject Matter Expert

I offer a Virtual Chief Information Officer (vCIO) service to a portfolio of anchor clients⁴ which are referred to me through my professional network. My clients are MSP-type consulting firms and VC backed technology organizations. I provide a diverse array of professional services ranging from infrastructure engineering consulting (40%). IT Project management (40%). Advisory consulting (10%). Tactical support (10%). I work as a subject matter expert to provide direction and coaching by managing activities to achieve results through others. I provide hands-on support for infrastructure engineering projects.

EMERgency 24 Inc.

Nationwide multi-state, multi-site, ISP and security firm. 100-200 employees.

Reports to Vice President of Technical Operations and SVP of business Operations

1999-2013 Senior Systems Engineer (Enterprise Architecture)

1997-1999 Enterprise Infrastructure Manager (Systems Engineering)

1996-1997 Network Manager / PBX Tech (Systems Integration)

Hands on systems manager for a 24x7x365 tier 4, real-time computing environment that processes property and life-safety data for a 911 Service. Monitoring over 15,000+ panels nation-wide. 99.999% reliability. Central Technical manager for multiple branch offices located around the country.

- Established the strategic direction for the application of new technologies designed to keep the business technically competitive in an ever changing technological and business climate. Worked with senior level executives, department heads and branch managers on developing and managing projects to improve service delivery and efficiency.
- Managed multiple multi-million dollar, multi-year IT projects, initiatives and life-cycle-evolution to ensure business IT alignment. Managed the day-to-day operations of the IT organization. Planned and executed Corporate HQ relocation, new

⁴ Ongoing relationship with client for which there is a steady flow of projects and income.

data center build out and several new call centers and disaster recovery sites. Aligned IT operations for regulatory compliance: UL 1981, 827, FM 3011 and PCI-DSS. IT Project manager completed 4000+ IT projects during the course of my tenure.

- Transformed data center and IT operations, developed and implemented an enterprise-level plan to replace and enhance IT systems. Implemented monitoring systems to ensure compliance of service level agreements to customers and developed security protocols and technologies to guarantee data and system integrity of services across the enterprise to address internet security threats. Managed the activities and served as mentor to a small team (15) of highly competent multi-disciplined systems engineers and software developers charged with developing Enterprise software for business use.

Founder LeeWare Development UVM - Commodity Hosting

2003 - 2007, Registered Remote Computing Facility Operator and Telecommunications provider.

Funded, engineered and operated QEMU/XEN based Virtual Machine Hosting service. Provided self-managed VMs to a variety of internet users, entrepreneurs and companies. Pivot up the value chain.

Founder LeeWare Development IaaS - Commodity Hosting

2005 - 2012, Registered Remote Computing Facility Operator and Telecommunications provider.

Funded, engineered and operated Linux Dedicated Hosting Service. Provided self-managed Linux based dedicated servers to a variety of internet users, entrepreneurs and companies. Closed business in response to the increased adoption and competitiveness of cloud computing.

MicroAge Inc.

~ **1995**, The IT Solution Experts, Chicago Area.

Network & Systems Engineer / Chicago Project Team

- Worked with an impressive group of engineers on high-profile projects in the Chicagoland area. Corporate HQ relocation, network and systems upgrades. Chicago project team member for the relocation of True Value company HQ relocation and IT Systems overhaul. Novell 3.x to Novell 4.x, Token Ring, FDDI, Ethernet, Windows For Workgroups 3.11, IBM 3270 terminals, printers and the deployment of 500 new PCs and telecommunication services.

PROFESSIONAL CREDENTIALS

Management:

- Managing Employees Performance, MW Associates (People Management) - 1994
- Quality Work Group, Proudfoot, Crosby PLC (Management Consulting) 1993

Professional:

- Illinois Permanent Employee Registration Card # 129191364
- Passed State and Federal Background Checks
- Professional Errors & Omissions Policy Coverage
- ITIL v3 Foundation # 229637738
- CompTIA Project+ (PMBOK) # COMP001020888431

Information Technology:

- VMware Certified Associate - Data Center Virtualization # 00365956
- VMware Certified Professional 5 - Data Center Virtualization # 00365956
- Cisco ARC, Network and Internet Engineering, GK,
- Microsoft Certified Systems Engineer + Internet (MCSE+I) # 1253449 1999

EDUCATION

Masters level in field competence. I started my career out of high-school and I have 28 years of practical industry experience in MIS. I have held a variety of positions in engineering and technical management and have won awards for outstanding achievement. All of these accomplishments are directly attributed to my industry knowledge and professional development. In addition, I have owned and operated several technology related businesses over the course of my career. Therefore, I have proven real world experience supplemented by professional development.

PRACTICAL KNOWLEDGE

- **Networking:** LAN/WAN Design, Ethernet GigE, FE, Cisco T3/E3, T-1, Opt-E-MAN
- **Routers:** Cisco 3745, 3660, 3620, 1841, 2500
- **Network Switches:** Cisco 3750, 2980G, HP 4000M, 2708, 2610 Dell PowerConnect 5448, 6448, 8024k, Force 10, Netgear GSM, and FST Series
- **VPN Devices:** Adtran, Netvanta 2100, SonicWall TZ Series
- **Firewalls:** SonicWall E5500, 4100, 3050, 2040, Fortigate 1000D, 100D
- **Load Balancers:** Coyote Point E350GX
- **CSU/DSU:** Larscom Orion 4500, Access-T45
- **Routing Protocols:** BGP4, TCP/IP

- **Traffic Filtering:** ACLs
- **Implementation of:** DHCP, DNS, WINS, FTP, MRTG
- **Networking Tools:** Observer 11x, WhatsUp Gold, Wireshark, Bandwidthd, Darkstats, OpenNMS, Request Tracker, Autotask
- **FIM Tool:** Tripwire Enterprise
- **Cabling Experience:** Punch Blocks, Patch Panels, Telco, Digital & Analog, Fiber MM/SM, Coax, Toners, Testers, and Tracers. Termination and Cross Connects. T568A/B
- **Server Hardware:** Dell M1000E, M620/520, HP DL360, DL380 Series G3-G7
- **PC Hardware:** Lenovo 8080, 8181, XW4000, 5000, Blackbox PC Assembly.
- **Network Operating Systems:** Windows 2012, 2008, 2003, 2000, and NT.
- **Client OS:** Windows 10, 8, 7, XP
- **Linux Operating Systems:** CentOS, Ubuntu, Debian, SuSe
- **Virtualization:** VMware vSphere, 6.0, 5.5, 5.1, 4.1, XenServer, Hyper-v
- **SANS:** Nimble CS 260, 460, 700 and AF 7000 + Shelves, NetApp FAS 3020, 2050, 6070 + FC shelves and SATA shelves.
- **Methodologies:** PDCA, SDLC and Waterfall, TQM, ZD.

8.0 Conclusion

1. I have done lots of great work during my career and helped many businesses reach their goals and achieve success.
2. I continue in my mission to help businesses win.
3. I am always interested in learning and working on new and interesting projects. Contact me today!

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