

Contact

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(LinkedIn)

Top Skills

Enterprise Architecture
Systems Engineering
Program Management

Languages

Ruby (Elementary)
Pascal/Modula 2/Oberon (Limited Working)
HTML (Professional Working)

Certifications

Microsoft Certified Professional - Networking
CEA(FEAF), Certified Enterprise Architect (BLACK BELT), Federal Enterprise Architecture Framework
Microsoft Certified Professional - Windows 98 Administration
CEA(DODAF), Certified Enterprise Architect (BLACK BELT), Department of Defense Architecture Framework
Microsoft Certified Professional - Windows NT Workstation Administration

Honors-Awards

Air Force Commendation Medal
Honor Graduate
Director's Award
Team Performance Award
Outstanding NCO

Publications

DHS Situation Awareness Success
A Nationwide All Hazards Backbone

Matthew Kern

MSEA, BSEE, 3 Certificates, Black Belt in FEAF and DODAF, LVL 1 Zachman, TOGAF 9, ITIL V3, PMP, CISSP, ISSAP, Veteran Falls Church, Virginia

Summary

He possesses unique, demonstrated and recognized expertise in Enterprise, Mission, Solution, System, Business, Data, Application, Technology & Infrastructure Architecture. By many combinations of objective measures, his peers number only in the hundreds, or less, worldwide.

Just the facts:

- 30 years in EA;
- Master of Science in Engineering Management specializing in Enterprise Architecture, With Distinction (3.871);
- Postgraduate Certificate in Department of Defense Architecture Framework from California State University, 4.0, accompanying FEAC Black Belt certification;
- Postgraduate Certificate in Federal Enterprise Architecture Framework from California State University, 4.0, accompanying FEAC Black Belt certification;
- Bachelor of Science in Electrical Engineering from Pennsylvania State University;
- Certificate in Electronic Warfare from Community College of the Air Force (CCAF), Honor Graduate (99%);
- Information System Security Architecture Professional, (ISC)2;
- Certified Information System Security Professional, (ISC)2;
- Zachman Certified Enterprise Architect, Zachman International;
- TOGAF 9® Certified;
- Project Management Professional, Project Management Institute;
- Veteran, honorable discharge, Air Force Commendation Medal (top 1% of USAF), promoted "below the zone" to Staff Sergeant within 4 years;
- 40+ years of management and leadership experience;
- Project management up to 75 persons;
- Program management support up to hundreds of millions;
- Acquisition support since 1978;
- Sales support on over \$1B of Federal sales, especially proposals;

A Unified View of Enterprise
Architecture as Five Activities

The Original Meaning of Enterprise
Architecture

Geospatial Routing: A Reference
Architecture

Patents

Distributed Monitoring System

Method and apparatus for
determining if a telephone handset is
off-hook

- Systems architecture on multiple programs over \$100M;
- Two patents in communications;
- Over 7500 connections on LinkedIn, over 8000 followers, including CEOs, CIOs, CTOs, project managers, enterprise architects, analysts who read my advice and education posts on enterprise architecture, systems engineering and related areas.
- 900+ LinkedIn endorsements for Enterprise Architecture.

Experience

Undisclosed

Lead Security Architect

May 2020 - Present (3 months)

Washington DC

Performing security architecture for Department of XXXXX.

- Apply advanced knowledge of SABSA and DoDAF/FEAF/TOGAF/Zachman frameworks.
- Produce multiple architectures composed of artifacts (Lists, matrices, drawings and documents).
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- Supply additional expertise in management, security and systems-engineering.
- Provide advice and insight.

Self Publishing

Enterprise Architecture Author

June 2014 - Present (6 years 2 months)

Falls Church, Virginia

I perform part time writing on 1099. I do proposals and such.

I am also currently working on material for an eventual book, probably on paper and sold in stores. This involves a framework for Enterprise Architecture

that supports partial automation of data gathering and EA artifacts. To do this there is a database and several applications to write. I hope to share this database so others can contribute.

Mostly done: I am assembling a series of over 500 LinkedIn posts into a five volume set of eBooks on enterprise architecture. The volumes will cover all five activities including enterprise level architecture, segment level architecture, solution level architecture, architecture governance and architecture process maturity management.

Volumes 1, 3 & 5 are available. I am currently working on Volume 4. Get them at:

<http://www.unauthorizedprogress.com/ebook.html>

Alutiiq, LLC

Lead Security Architect

May 2019 - February 2020 (10 months)

Washington DC

Lead Security Architect. Liaison to EA.

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Trowbridge & Trowbridge, LLC

Chief Enterprise Architect

March 2017 - March 2019 (2 years 1 month)

Supporting Joint Service Provider, Department of Defense, Washington DC Metro

- I lead a small team of enterprise architects.
- I have driven resurrection EA practice at JSP.
- I have produced an architecture repository.
- I have created and documented architecture process.
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Greater Brain

Enterprise Architect

December 2015 - December 2017 (2 years 1 month)

Remote

Aiding GBG with customer, process and product definition, part time (just a few hours per week) , for some stock. The company went in to reorganization, the stock never materialized.

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Blueprint Consulting

Chief Enterprise Architect

September 2015 - February 2017 (1 year 6 months)

Washington D.C. Metro Area

- Perform miscellaneous architecture activities for FEMA Response & Recovery.
- Limited 8(a) Business Development.
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- Supply additional expertise in management, security and systems-engineering.
- Provide advice and insight.
- Whatever else comes up.

US Department of Homeland Security

Contractor

2005 - February 2017 (12 years)

Washington DC metro area

- I have contracted to DHS for several years.to include--
- Back at DHS. Details to follow.
- Prior at HQ as security architect
- Prior at FEMA as systems engineer
- (A short break doing work for OSD)
- Prior at USCIS as enterprise architect
- Prior at ICE working governance.
- Prior working at CBP doing SELC work.

Prior at DNDO as enterprise architect (again).

Prior at FEMA as enterprise architect.

Prior at DNDO as enterprise architect.

At Blueprint Consulting, supporting FEMA Response & Recovery / RTPD.

At Teracore, Constellation (and Parsons before) my customer is DHS, and I work mainly onsite. I am an enterprise architect for DHS, a manager of EA efforts, and I have worked to create a civilian situational awareness capability integrating state/local/tribal systems with federal systems.

QiNetiQ contract to DoD/OSD/AT&L:

Chief System Engineer, System Engineering, System Integration, DODAF 2.0, Business Intelligence, Big Data, MongoDB, SOA, JBOSS, Jasper, ESB, Web Services, data interchange, XML, XSLT, OLAP, ETL, OLTP, AMQP, defense acquisition process, EVM, information assurance, interoperability, etc. New this week: BEA compliance! This paid well, not much management..

Constellation Inc, CTO

I returned to my previous job at Constellation Inc, with a new title, part time. working for CEO Sumeet Luthra. For coverage I was supporting DHS, acting as a SME, on the FEMA Logistics Supply Chain Management System as Chief System Engineer for the PMO. I filled this position part-time, but work exceeded 40 hours per week. The program then suffered a 20% reduction in funding. The situation was unsustainable

Work involved system engineering, the DHS SDLC, requirements management, SOA governance, interface requirements, risk management, technical management.

Full time onsite coverage at DHS OCSO (Office of the Chief Security Officer) HSPD-12 office working on ICAM related architecture. X-tec, LDAP, MS Active Directory, DODAF/TOGAF,

Clear Government Solutions

PT Cloud CTO

July 2016 - January 2017 (7 months)

Beltsville, Maryland

---Advise on government contracting, opportunities.

- Act as key manager for a small cloud service provider to the US Federal Government.
- Perform functions of ITIL Service Strategy Manager
- Perform functions of ITIL Service Transition Manager
- Transition planning and support
- Change Management
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- Supply additional expertise in management, security and systems-engineering.
- Provide advice and insight.
- Asset & Configuration Management
- Release & Deployment Management
- Validation & testing
- Evaluation
- FedRAMP security documentation updates

Part Time, Hourly. This company became insolvent & failed to pay invoices.

The FEAC Institute

Adjunct Instructor

January 2015 - January 2016 (1 year 1 month)

Falls Church, Virginia

Occasional, part time instructor at FEAC Institute. So far, this happens rarely. If you would like FEAC to provide training on the material in my eBooks, let me or Cort Coghill know about it.

Teracore, Inc.

Director of Enterprise Architecture

January 2012 - December 2012 (1 year)

Arlington, Va

Managed DHS/USCIS enterprise architecture support task, and kept a low key in a small role until I completed the accelerated MS at NU. (Portions of contract not-renewed, resulting in short notice layoff. Apparently EA did not identify the activity clearly enough in the EA budget, and the DCIO canceled the money thinking perhaps that the process was being bypassed.) Luckily the MS was over about the same time, eh? Thank you to Teracore and USCIS for making sure I had work while distracted by school! My special thanks to Luis Perez (CEO), George Freeman(VP), Prentice Norman (GS-15 and EA guru), Addison Blackburn (GS-15, Dep Chief Architect) and Raj Sharma (GS-15 and Chief Architect).

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International Professional Enterprise Architects Consortium (IPEAC) Director (Member of board of directors)

January 2011 - August 2012 (1 year 8 months)

Washington DC Metro

The International Professional Enterprise Architects Consortium (IPEAC) announces its formation legally as a Section 501C(6), Virginia based, not-for-profit non-stock corporation. The IPEAC (Pronounced: Eye Pea Ack) is focused on promoting and galvanizing the EA professional community, worldwide, around high standards of performance in the discipline and towards further recognition of the field, as an important curriculum of study and practice. This last would involve, of course, academic institutions and their further recognition of the field, as well as, state and other governmental entities recognizing the importance of professionalization of the field, perhaps, ultimately, resulting in official recognitions (like licensing) not unlike

other professional fields. The IPEAC is open to all practicing Enterprise Architects, individually, as well as, companies and organizations wanting group memberships for their cadre in their EA practices, not for profit EA organizations and student and student organizations associated with or with interests in EA. Different memberships, privileges and fees, to be set by the Board of directors will apply in each case.

Constellation Inc

Vice President & Practice Manager of Enterprise Architecture

2006 - December 2011 (5 years)

DC Metro

Constellation does on-site consulting for the Federal Government, much of it at DHS. We are an SBA certified 8(a), CMMI certified level 2, and we hold vehicles at CBP, ICE, FEMA, GSA (Stars). We have subcontract work at DNDO, CBP, and other locations.

As VP I have delivered three new contracts and two new customers to Constellation, and I lead various efforts when required. I also help to develop talent, especially enterprise architects.

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Parsons

Principal Enterprise Architect

2005 - 2006 (1 year)

Contract enterprise architecture support to DHS at DNDO.

These guys asked me to spread out my leave as my mother died. On that week that they protested I did not go home and she died. I left.

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Intergraph

Contractor

2005 - 2005 (less than a year)

System architecture & System integration: A short contract as architect for converting Intergraph CAD to a C2 system and integrating sensor systems, esp. security sensors. The rest is under non-disclosure.

U.S. Department of Education

Contractor

2004 - 2005 (1 year)

Subcontractor to CSC at Ed doing enterprise architecture, including OMB reporting.

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Productization & Commercialization, Inc

CEO and Chief Architect

1996 - 2005 (9 years)

DC Beltway

System integration, system architecture: We started a company, but the end of the dot-com era killed any hope of VC. I held other jobs while trying to sell our workflow product and secure website technology. There is still nothing like it.

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Enterworks

Principal Enterprise Systems Architect

2003 - 2004 (1 year)

System integration, system architecture: A short consulting gig to adapt Enterworks workflow to 1) manage vulnerability remediation 2) manage aircraft repair schedules on a carrier (used with NALCOMIS) 3) fix a system used to manage the billing process for a major card processing entity.

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contract

Contractor to US Senate
2003 - 2003 (less than a year)

A short contract evaluating a data center. The rest is under non-disclosure.

SAIC

Project Manager & Enterprise Solution Architect
1999 - 2003 (4 years)

Remediated FAA system to track late/early arrivals and departures. Worked onsite at FAA

System engineering, system architecture: Worked onsite at Treasury FinCEN supporting one of the first collaboration systems across government for secure collaboration, comms networks, and also supported the groundbreaking work on the system that mapped social networks of bad-guys by financial transactions.

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Information Analysis Inc
Principal System Engineer
1996 - 1998 (2 years)

System engineering: A short engagement to promote the CAST system for software code conversion and Y2K remediation. Made some significant money on the stock.

Digital Systems Research Incorporated
Chief Scientist
1995 - 1996 (1 year)

Mostly bid and Proposal support, some mentoring and governance work.
System engineering, system architecture.

I-Net
System Architect of the Document Management Division
1994 - 1995 (1 year)

I went to I-NET to build the FAA backfile conversion system. This was the last huge imaging workflow system, the 2nd largest in the world at the time behind IRS from what we knew. I also reviewed several other projects (governance) and provided architecture- for a huge 4 city legal discovery imaging system for example. Significant system engineering and system architecture.

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--Supply additional expertise in management, security and systems-engineering.

--Provide advice and insight.

Litton PRC

Principal Systems Engineer & Project Manager

1987 - 1994 (7 years)

I worked on several integration projects as either the communications architect, or systems architect, and as either task manager or project manager. These included: JEDMICS (Joint Engineering Management Information Control System) the worlds largest engineering document management system; ELCADD (Engineering Logistics Computer Aided Design and Drafting) a huge collaborative engineering system for General Dynamics; PERMS (Personel Evaluation Records Management System) the system to evaluate ARMY officers and senior enlisted for promotion; ATLASS 2 a huge worldweide logistics system for the USMC; TC-AIMS a huge army logistics system; another USMC system used to manage the work at the depots, a seismic imaging system for Sun Oil; An imaging system at Wisconsin Gas and Electric; maintenance at BG&E, a large county records systems for plats and land records, a system for American Bureau of Shipping to manage ship drawings; marketing of workflow systems to UAE, PERSPAY II a huge system to put cash machines on ships and automate payroll with direct deposit for the NAVY; and more. I was the communications, interface and workflow guru for ATI, then absorbed by PRC.

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Advanced Technology Incorporated
Principal System Engineer and Project Manager
1987 - 1994 (7 years)

Absorbed into PRC via merger. See above.

Control Data Corporation
Project Engineer
1985 - 1987 (2 years)

2 patents in communications

I produced architecture for a nationwide sensor system to gather audience monitoring data for Arbitron. They later decided to exit the national TV market.

I also designed controller boards using Z-80 and 80c88 processors, and modified code in audience sensor packages using 8048, 8052, NCS-800, etc.

I managed a team for hardware/software production. System engineering, system architecture, circuit design, intellectual property engineering.

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--Discover and document enterprise components, relationships, principles and contexts (architecture landscape relationships).

USAF

Electronic Warfare System Specialist
August 1977 - August 1981 (4 years 1 month)

SR-71 program, MDRDE & ELINT systems technician

also, Repair of the earliest electrostatic plotter, Xerox Versatek

Member of the USAF evaluation team for the rotary head tape deck from AIL- its failure resulted in that ugly satellite antenna

U-2 program, AR1700 & FR1900

For a brief moment in history I was a tape deck guru

Staff Sergeant "below the zone", AFCM, honor grad from Keesler

Hardner Doyle Construction
Warehouse Laborer (logistics)
1974 - 1977 (3 years)

Erie, PA

While in High School. I worked in the warehouse as a laborer.

Civil Air Patrol
Pennsylvania Wing SQDRN 502 RANGER Search and Rescue Team

1974 - 1977 (3 years)

Northwestern Pennsylvania

Wilderness search and rescue experience while in highschool... You should see my fellow CAP Ranger's eyes roll when the wilderness survival school shows are on the TV.

C.A.P. joke: Woman watching parade with kid views CAP parade contingent at "parade rest".Q "What kind of uniform is that?" A "Canadian Air Police Ma'am, we always get our plane"

Education

National University

Masters of Science in Engineering Management, Specializing in Enterprise Architecture · (2011 - 2012)

California State University-East Bay

Masters Certificate, Enterprise Architecture (DODAF) · (2007 - 2007)

California State University-East Bay

Masters Certificate, Enterprise Architecture (FEAF) · (2006 - 2006)

Penn State University

BSEE, electrical engineering · (1981 - 1985)

Community College of the Air Force

Electronic Warfare System Specialist, Avionics, Electronics · (1977 - 1978)