

Skills

- Enterprise Architecture, Security, Vision, Strategy, IT alignment with business needs
- Reviewed, analyzed, and developed system architectures as per enterprise guidance
- Business & Solution architecture for complex systems, IT strategy, Roadmaps, Gap Analysis
- Security - Identity Management Access & Controls as per NIST Special Publication 800-53 r4
- Infrastructure modernization, Cloud integration, Systems Migration, Internal/External Interfaces
- IT Infrastructure improvements of Build, Release, Deploy processes into “live” systems
- Developing (V)ROM estimates, Requirements traceability, use of Rational Tools
- Business Process & Case Management, Business requirements & Business architecture
- Enterprise Life Cycle management, Waterfall and Agile methodologies
- Common enterprise services, SOA , Requirements Analysis, Proof Of Concepts (POC)
- Alternative Analysis, Systems Evaluation, Prototyping, Capacity and Performance
- Message Queuing, Middleware, Cloud Computing (IaaS, PaaS, SaaS), Big Data
- Web, Portals, Wiki, Blogs, Social Media, Promotions & Monetization
- Disaster Recovery (business continuity design)
- Proposals Technical lead
- End-to-end technology and business solutions around CSC’s NPS Brands
- Mission Services, Enterprise Services IT, Next Gen Technology

Education

- **M.Sc.** in Computer Science & Technology Innovations Management – University of MD
- **B.Sc.** in Computer Science – University of Maryland

Highlights

- Current – IT Consultant, Analyst, Solutions Architect, Infrastructure & Web Technologies
- 2015-2017 – IT Consultant, Internal Revenue Service (IRS) IT Modernization program
- 2011-2015 – Business & Solutions Architect, IRS Affordable Care Act (ACA)
- 2003-2011 – Enterprise Architect, US Dept. of Treasury, IRS modernization Program
- 1998-2003 – Enterprise Architect, Chief Architect, Consultant, NASA and Commercial
- 1993-1998 – Systems Engineer, NASA Advanced Architectures
- 1983-1993 – US DoD, IT systems: Flight Simulators, Submarine Missile systems
- *1993-Present – Systems Engineer, Analyst, Solutions Architect, IT Consultant*

Resume follows...

THANOS VOUDOURIS

SUMMARY

Over thirty years in the IT industry with extensive experience providing support for e-Business (public sector) and e-Government Federal Enterprise Architecture (FEA) initiatives at the DoD, NASA and IRS modernization programs. I have been working with and lead teams in providing support for vision and strategy for secure enterprise, requirements analysis, planning, design, business & technical architecture, integration, implementation and performance analysis of complex systems, using both Waterfall and Agile IT methodologies. Employing my technical knowledge, leadership skills, and methodologies, I have led technical teams for Infrastructure modernization and aligning secure enterprise IT with business objectives.

Areas of expertise include: Identity Management with secure Directory Services-based infrastructures, e-Business solutions, business processes, Service-Oriented Architecture (SOA), unified messaging and collaboration, Integrated Production Model (IPM) DataMart, Cloud Computing (IaaS, PaaS, SaaS), Big Data, Portals and Web Services. I possess solid experience in enterprise architectures infrastructure complex environments, system integration, and the use of software and infrastructure components that enable synergistic system design, while adhering to the highest security and privacy standards.

As a Senior Solutions Architect in support of the IRS Enterprise Architecture (EA) Office, I have been assigned to support the Affordable Care Act (ACA) program and the related system that provide Infrastructure services. Provided technical support to projects and guided them in the design of EA-compliant systems based on the EA Target Architecture. Experienced across all levels of Enterprise Life Cycle from vision and strategy to analysis and planning, design and implementation of complex systems, including SOA-based design using infrastructure and centralized security mechanisms, e-Authentication, real-time collaboration tools, and database systems. Also supported defining the transition strategy and road map from As-Built to Target Architecture.

Expertise in modern communications include, web portals, social media integration and monetization, Wiki and Blog installations and deployment, Real-time collaboration tools, Unified Messaging, etc.

SKILLS

- Enterprise Architectures, Security, Vision, Strategy, Roadmap, IT alignment with business needs
- Reviewed, analyzed, and developed system architectures in compliance with the enterprise architecture
- Direct interface with client and project teams, guide technical solutions through approved life cycles
- Constant collaboration with technical leads for leveraging existing systems and performing Gap Analysis
- Solution Architecture, business and requirements using the IBM Rational suite of products
- Requirements analysis, decomposition and translation into low level for detailed design
- Identity Management, Authentication-Authorization-Audit security services & Access Controls
- Enterprise-wide Directory Services, role-based policies for user access, and logging
- Interfaces to Common enterprise services and shared security mechanisms enforcing security and privacy
- Identification, selection, specification and implementation of security controls as per NIST SP800-53
- Architecture and integration of secured web-based solutions, including portals, Cloud, Big Data
- Portals, High Availability, load balancing, disaster recovery (business continuity)
- Integration of SOA business drivers and technology with Enterprise Architecture
- Alternative analysis and evaluation of systems, prototyping, including capacity and performance
- Authoring of Business System Report (BSR), Design Specification Report (DSR), etc.
- Workflows, Business Process & Case Management, Project & Release Management, Agile IT
- N-tier architecture for secure presentation, business, and data access logic in Java/J2EE & .Net
- Real-time collaboration tools, Unified Messaging, Wiki, Blogs and Social Media
- Web and portals with Microsoft IIS 7, Apache Tomcat, Drupal, Joomla, WordPress
- Web languages & tools – HTML, scripting, Java/J2EE, PHP, search engines, statistics etc.
- e-Commerce and Net Market applications, B2B and B2C services

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EXPERIENCE

IT CONSULTANT – Present

Director and Technology lead of the 501(c)(3) non-profit organization Hellenic Electronic Center (HEC) (www.greece.org), a virtual organization with multiple websites, international governing body, and several hundreds of thousands members from around the world. Besides the directorship, latest tasks include the modernization of the organization's infrastructure. Specifically, the migration of the IT environment and applications from old servers to new systems on a new Cloud platform. Managing and deploying (DevOps) the complete IT environment, that provides for many websites and applications, including WordPress, web server apps, Microsoft Exchange Server and Lsoft's Listserv with hundreds of mailing lists. System is based on VMware vCloud virtual servers.

Recent engagements, newer to older up to twenty five years

IT CONSULTANT (FOR DELOITTE)

Assigned to IRS Enterprise Services, Systems Engineering. This assignment is a continuation of my thirteen years of work at IRS. Specifically, working on the Customer Account Data Engine 2 (CADE 2) modernization program, Integrated Production Model (IPM) development and integration.

- Completed the CADE 2 Solution Architecture (SA) for the IPM related systems. The SA document defines the technical direction for the CADE 2 modernization program
- Completed the Vision, Scope and Architecture (VSA), for IPM Operational Data Store (ODS)
- Identified and implemented security control families as per requirements on security & privacy
- Recognized for outstanding contributions to IPM
- Experienced with Legacy to Modernized systems conversions and Auto Rule Converter (ARC)
- Contributed to several other projects related to IRS modernization efforts and infrastructure
- Overall, spent over thirteen years on various assignments at IRS

COMPUTER SCIENCES CORPORATION (CSC)

Brand Solutions Architect (SA) lead in support of many CSC proposals. Proposal activities include works for RFI, pre-RFP, RFP for the following:

- Federally Facilitated Marketplace (FFM) & CMS - HealthCare.gov (Affordable Care Act)
- Naval Surface Warfare Center (NSWC) Crane's Sources Sought for IT
- Navy Medicine, Real Time Location System (RTLS)
- Sources Sought Department of State (DoS) Administrative Services (SAS)
- Air Force Commanders' Resource Integration System (CRIS)
- US Railroad Retirement Board (RRB)
- NIH Clinical Center Clinical Research Systems Integration Services (BTRIS and CRIS)
- Volpe Center Support Onsite for IT Services (SOFITS)
- U.S. PACOM Regional Engagement Websites Services

Booz Allen HAMILTON (BAH) & COMPUTER SCIENCES CORPORATION (CSC), SYSTEMS/ SOLUTIONS ARCHITECT SENIOR PRINCIPAL LEADER, NORTH AMERICA PUBLIC SECTOR (NPS)

In September 2003, was assigned to US Dept. of Treasury IRS modernization program in support of IRS Enterprise Architecture (EA) Office as an enterprise architect for both CSC and BAH.

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Activities include:

- Working with the EA team on the Affordable Care Act (ACA) (Since July 2011) program and projects, supporting business architecture and development of technical architecture design of complex systems as well as development of detailed design of artifacts for various ACA systems. Activities included requirements analysis, conceiving and implementing an enterprise Non-Functional requirements Framework, development of EA Guidance and ensuring ACA implementation alignment to Target Architecture. Actively participated in the Solution Architecture and authoring the system design sections of the ELC documents as ICD, BSR, DSR, including performing Customer Technical Reviews (CTR), as well as performing alternative analysis for solutions. Performed similar Solution Architecture work for Foreign Accounts Tax Compliance Act (FATCA).
- Prior to this assignment, was Lead Engineer/Architect for the e-Authentication project and also worked on Enterprise Directory and Authentication Services (EDAS), Electronic Fraud Detection System (EFDS), Customer Account Data Engine (CADE), Integrated Data Retrieval System (IDRS), Integrated Production Model (IPM) integration, Return Review Program (RRP), perimeter security, and other projects.
- Recognized as technical expert on the enterprise Identity Management under strict IRS rules of security and privacy. (I&A, access control, audit, and other security mechanisms are ubiquitous in the IRS architecture. These mechanisms must be architected and configured so that penetration attempts are thwarted and privacy integrity is not compromised.) In that capacity, served as leading member of the Enterprise Authentication & Identity Management initiative, identifying requirements, use cases, and preparing IAM systems to handle millions of users.
- Participated in the Modernized Vision & Strategy (MV&S) process focusing on technical validation of EA alignment with the Target Architecture. This involved the identification of Common Services as part of the SOA process, SOA Roadmap and SOA working group, and leveraging portal infrastructure for common security mechanisms, and backend services. Design leveraged Software AG's WebMethods Integration Platform - Enterprise Service Bus (ESB).
- Lead a team in the annual releases of EA. The IRS EA2007 and IRS EA2008 received the "Excellence in Enterprise Architecture" Awards for leadership in government transformation by the e-Gov institute FEAC.
- Designed and implemented a web-based system for the Enterprise Standards Profile (ESP) online database, which included hundreds of "IRS approved" COTS Products and Standards.
- Led teams reviewing the projects design at various milestones, providing analysis and feedback on the viability of the proposed solution, including recommendations in compliance with EA. Also working in Business Architecture and Case Management.
- Participated and led teams on various alternative analysis related to enhancements and upgrades of current systems for migration and transition to new hardware and software including software versioning upgrades ensuring interoperability among systems.
- End-to-end Infrastructure improvements of Build, Release, Deploy processes into "live" systems. Processes followed release management guidelines and implementation based on "intrusive" or non-intrusive system updates.

COMPUTER SCIENCES CORPORATION (CSC), SENIOR COMPUTER SCIENTIST, GLOBAL INFRASTRUCTURE SERVICES (GIS), SOLUTIONS ARCHITECTURE

As Senior Architect assigned to several CSC accounts including: IRS Modernization program (September 2003 to present – Lead Architect), Federal Department of Education (student FAFSA online project), Children's Hospital Los Angeles (CHLA) (Chief Architect overseeing IT enterprise

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and align IT with business objectives), San Diego County Government (modernization initiative), and other projects. Some of the assignments included the role of Service Delivery Manager (SDM).

NASA MARSHALL SPACE FLIGHT CENTER, CHIEF ARCHITECT, CONSULTANT

Led effort of thirteen NASA centers architecting a NASA-wide Global Directory (the NASA Global Directory Initiative [GDI]), conceived as a NASA Directory service infrastructure to serve as a centerpiece to "One-NASA" vision.

COMPUTER SCIENCES CORPORATION (CSC), SENIOR E-BUSINESS ARCHITECT GLOBAL INFRASTRUCTURE SERVICES (GIS), GLOBAL WEB HOSTING (GWH)

Assigned to DuPont's e-Infrastructure and GWH projects. The scope of the GWH project was to provide a set of core enabling infrastructure and application e-Business related services in CSC Data Centers. Conceived, designed, and implemented the Global Directory Services system, which provided IM, control, security, authentication, and authorization to GWH infrastructure components and to clients globally. As the Lead Directory Services architect, designed and integrated a horizontally architected, leverageable Global Directory Service system that effectively handled complex B2B & B2C processes. The system enabled CSC to meet its global enterprise-level needs.

NASA GODDARD SPACE FLIGHT CENTER (GSFC), SENIOR COMPUTER SCIENTIST, ADVANCED ARCHITECTURES AND AUTOMATION (AAA) BRANCH CODE 588

(Contracted by Computer Sciences Corp. (CSC), System Sciences Division [SSD]).

Performed Task Leader responsibilities for a group of engineers working for the Earth Observing System (EOS) Test System (ETS). Besides coding entire system interfaces, analyzed specification requirements, oversaw the system design, assisted engineers on their coding techniques, prepared schedules, participated in presentations of system designs, and interfaced with client on a daily basis.

Older engagements

CAE-LINK SIMULATION SYSTEMS - SYSTEMS ENGINEER IN STAFF

Lead Analyst for the S3 Anti-Submarine Warfare (ASW) aircraft weapon system simulators, which comprised of high-end computers, I/O systems, intelligent controllers, and custom-built hardware, interfacing in real-time with other military on-board computers to provide highest degree of realism. Performed requirements analysis, system design and development of the Executive software, system routines, I/O device handlers, and use of tools for development, testing and maintenance.

JOHNS HOPKINS UNIVERSITY / APPLIED PHYSICS LABORATORY (APL) - SOFTWARE ENGINEER, STRATEGIC SYSTEMS DEPARTMENT

Developed and maintained tools and databases used to analyze and evaluate the performance of POSEIDON and TRIDENT weapon systems. Evaluation included: submarine performance analysis during sea trials, fire control and Trident missile performance and accuracy, and other analyses leading to the weapon system enhancement.

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NASA GODDARD SPACE FLIGHT CENTER (GSFC) - SENIOR DATA TECHNICIAN ATTITUDE SYSTEMS OPERATIONS

Provided support in all aspects of satellite attitude determination prediction and control, real-time and post-flight processing for the SEASAT and MAGSAT satellites. Responsibilities included: preparation, processing, and analysis of tracking data collections for spacecraft definitive attitude determination, and the development, debugging, documentation, and maintenance of software.

EDUCATION

- Master of Science, Technology Innovations & Management, University of Maryland, March 1998.
- Bachelor of Science, Computer Science, University of Maryland, December 1981.
- Associate of Arts & Science, Computer Science, Montgomery College, May 1978.

CLEARANCES

- US Government issued HSPD-12 badge – September 2010
- Full Background Investigation (Full BI), US Dept. of the Treasury, IRS, December 2004 & 2017
- Minimum Background Investigation (MBI), US Dept. of the Treasury, IRS, October 2003
- DoD Secret, and DOE Secret, 1981 to 1993 (inactive)