NAME: Joseph V. Sciortino
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PSS LC: TITLE Senior SYstems Engineer III
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Background

EXPERIENCE SUMMARY: Mr. Sciortino has has over 35 years Program Analysit experience that includes Enterprise Level System Design and Development, Finance and Program Mangement,and Organizational Development experience building client-process driven information technology solutions that address complex safety and operational demands. Mr. Sciortino's strengths include strategic and analytical thinking, the development and analysis of business cases, portfolio analysis, collaborative team work, buy-versus-lease analyses, capital investment and return on investment cost benefit alternative assessments.

Work History and Professional Accomplishments

Sr. Systems Engineer III, Consultant	OAASYS INC. WASHINGTON DC	06/2018 TO PRESENT

Collaborating and developing or modifying business cases, conducting cost estimates, and quantifying benefits and shortfalls for major capital investments for the Federal Aviation Administration (FAA) Technical Operations AJW-13.

- Provide Sr.System Engineering support to Cocbe Inc. on the AJW-17 CLMRS CMA Data Migration Program -- conversion of Web CM for migration of the configuration items to new CLMRS CMA IFS Platforms tasking.
- Developed customizied reliability center maintenance (RCM) stratigies for NAS/NextGen groundbased surveillance, navigation, landing, anc communications systems.

Work History and Professional Accomplishments

Sr. Systems Engineer III Sr Principal Engineer II Owner	JVS LLC Millersville MD	01/2005 to Present

2018- Present: Current Principal Engineering and progam analysis support functions for the FAA Remote Monitoring and Logging (RMLS-TR) technical refresh Acquisition Category 5 to the Program Office in accomplishing Program goals.

- RMLS NRN Reliability analysis, cost/benefit analysis and Business Case for alternative spare strategy for RMLS NRN resulting a $3.3M cost-saving benefit. Prepare RMLS Technical Refresh (TR) configuration item LRU descriptions for functional and physical maintenance database – Facility Master File structure
- RMLS risk management support for technology and network upgrades and Program Master Plan and Schedule management including EA Roadmap (concentrate on RMLS; AMMS addresses 2020 EA Architectur)
- Alternative evaluations of the ATO Network Cyber Group and NAS Cybersecurity Enterprise Engineering Facility assessment for RMLS. Network Cyber Management assessment (NCM) compliance tests. Develop Cross-Domain network security solution recommendations to resolve FAA Order 1370.111 non-compliance

2010-2017: Provided engineering, development, and management support to the Office of Airports (QRP) for the development, and implementation of the national ARP Airports GIS (AGIS) enterprise system for all HQ, Regions, District Offices and 3,500 of U.S airports and support contractor users

funded by the $3.5 Billion AIP Grant Program for airport construction projects. Accomplishments: Successfully tested and rolled out Phase I and Phase II of the FAA Airports GIS program, that based on the agency Advisory Circular 18B program specification

- Managed twenty three software engineeres, database analysts, software defelopers to completed the design and development of all Applications and subsystems involving over four terabytes (TB) of airport CAD design airport layout plans of orthographic, satellite, and digitized data for the online use in the AGIS.
- Developed Office of Airports (ARP) business case for the AGIS, Identified $2B in quantified benefits from AGIS investments. Developed the entire operational Airports GIS (AGIS) that is deployed to over 7,000 FAA and non-FAA users responsible for airspace safety, airport construction, asset management, and safety.
- Developed and published fifty-five (55) airport design specifications and AC's and managed the legal review and approval for each airport design document.
- Prepared all reports and briefings for FAA Executive use and Congressional approvals for funding that converted airport design standards from a CAD/CAM two (2) dimensional perspective to a Geographical System multilayered three (3) and four (4) dimensional perspective.

2009 – 2015: Developed the AJW and PMO requirements analysis, investment analysis, business case development, transition planning, and quality assurance of FAA maintenance data legacy systems.

- Supported the upgrade and modernization of interagency command, control, and communications (C3) interoperability to allow a real time, shared common air picture and digital C3 data migration to a Web-based Situational Display (WSD) system capability.
- Developed the TACR Business Case Analysis while also preparing engineering cost estimates based on CWBS. Defined system(s) shortfalls and investment requirements to fund corrective actions while developing procurement packages for targeted problem resolution, inclusive of SOW's, evaluation metrics, standards, evaluation criteria, price vs cost assessments, deliverable requirements, and schedules for all (e.g. all ILS, VOR, TACAN, VORTAC, DME) ground-based NAVAIDs currently in use in the NAS. Completed a comprehensive assessment of all Ground-Based Navigation Aids (GBNA) Supportability and maintenance data requirements.
- Compiled supportability, sustainment, and associated life cycle management issues for the over 14,000 NAVAID systems used across the NAS by facility type (e.g. specific equipment model) and life cycle.

1996-2015: Provided the Senior System Engineering and reverse engineering required to develop performance simulation models to predict current and future requirements of NAS systems.

- Modeled Radar systems for performance improvement and sustainment improvements - ATCBI-6, Precision Runway Monitor (PRM), ASR-9, ASR-11, TDWR, and Mode-S; use of the models improved reallocation of critical spares between sites, support for investment analysis decisions, reference case validation, and the significant reduction of costs in the acquisition of spare parts for new and legacy systems (e.g. more than $20Million savings for ATCBI-6 initial spare parts acquisition)
- Senior System Engineering support to the NAS Sustainment Board (from its inception in 1999) with annual in-depth analysis of all NAS systems for identification performance related shortfalls that can affect the availability of NAS services.
- Conducted numerous NAS Facility sustaent studies, analyzed NAS Performance Reporting System (NAPRS) for all reportable systems for trends in availability, reliability

indicators, maintenance, system repair and/or service restoration. Analyzed Logistics Center (LIS) data to identify critical supportability issues, inclusive of pending parts shortages obsolescence, cannibalization, and supply chain risks that impact NAS performance assurance in the near term

- Developed a cost-effective contingency plan that met the requirements of Homeland Security Presidential Directive (HSPD) -7, which involved developing the concept for the FAA implementation plan. Lead the development of NAS equipment access for national reconfiguration due to emergency operations for the SPARTCC at the ATL Tech center.

1994 – 2006: Developed or worked on twenty-two Mission Need Statements (MNS).

- Developed fourteen initial Requirements Documents (iRD) for JRC-2 approvals.
- Developed the ADS-B MNS and iRD for JRC's 1 and follow on Investment Analysis.
- Modelled and recommended the ASR-9 SLEP Alternative, base case analysis, and cost benefit assessment for five alternative ASR-9 designs
- Lead a national integrated requirement team (IRT) effort to identify, catalog, and assess the condition for all (e.g. all ILS, VOR, TACAN, VORTAC, DME, etc.) ground based NAVAIDs currently in use in the NAS.

Work History and Professional Accomplishments		
Sr. Systems Engineer III Sr Principal Engineer II Owner	JVS Inc. Millersville MD	01/1995 to Present

Provided Senior System Engineering and reliability improvement engineering services to JPDO, AVS, ARP, ATO W, NDP, and surveillance program offices (PMOs) to assess and improve NAS Services so that they meet current and future FAA and DOD surveillance data requirements.

- Participated in the Interagency Homeland Air Security (IHAS) Steering Group's development of the IHAS Operational Concept and IHAS Operation Architecture, defining over 3,500 Information Exchange Requirements and created a derivation that became the National Capitol Region Coordination Center
- Developed the baseline four-year Long-Range Radar Optimization Plan to visit the forty three (43) ASRS-1 and ARSR-2 facilities after baselining, standardizing, and optimizing the ARSR-1 and ARSR-2 long range radar systems obsolete inventory.
- Co-authored the JPDO NGATS Implementation Plan and Strategy, now the NextGen Air Transportation System.
- Developed the processes and tools necessary to institutionalize the NAS Sustainment process for all NAS Services and facilities.
- Prepared RE&D program plans (inclusive of technical, engineering objectives, and funding constraints) and associated participant (e.g. HRL, University's, CAMI, etc.) tasks for communicating with, detecting, and avoiding unmanned aircraft vehicles (UAVs) for the AVS UAV Program Office.

Work History and Professional Accomplishments		
Sr. Systems Engineer III	TITAN Systems Inc. Reston Va.	01/1992 12/1994

Completed a comprehensive business process engineering (BPE) of Airway Facilities and identified all issues, resolutions, and designs for resolution of NAS data management.

- Designed, developed, and implemented the Cost Performance Management Information System (CPMS) LRU based performance management tool.
- Concept, Design, Proof of concept, Development, Integration, and Implementation of a UNIX-based, C++, Oracle 7.2 Client/Server application
- Conducted Business Area Analysis, Process Analysis, Process Reengineering for maintenance, logistics, and costs related performance and data exchange entities for all Airway Facilities Hq, Region ad Field data and processes
- Corporate Information System. Analyzed, modeled, and reengineered headquarters definition and structure, developed first components of Oracle and field processes, developed logical database and corporate data warehouse, and developed interfaces to legacy data sources for automate data exchange.
- Designed and supported the development of the Regional Information System (REGIS), which is a consolidation of several dissimilar cuff record systems used for financial reporting in compliance with DELPHI and various other reporting requirements.

Work History and Professional Accomplishments		
Sr. Systems Engineer III	RO Enterprises Inc Lanham, MD.	07/1985 to 01/1992

Offered engineering, system engineering, and technical program and project management experience from DoD programs include.
- Design, develop, and implement the Alaskan Air Command Wing Level Information System on a VAX/Oracle/Powerhouse Platform.
- Defined, designed, and implemented Telecommunications Architecture for the Air Force Stock Control and Distribution System. Lead Operations and Enterprise data exchange for the Air Force Wing Level Information Requirements (AF WIS).
- Engineered, designed, developed, and implemented an Agency-wide Decision Support System with an Executive Information Node on a 4GL/Unix/Oracle/Visual Basic Platform to support Management and Control of Entire DoD Weapons System Acquisitions
- Conceptualized, designed, and managed development implementation, along with operation effectiveness testing, for the Increment IV Engine Diagnostics and Trending Subsystem of the Air Force Comprehensive Engine Management System, using VAX/Oracle/C Environment.

Work History and Professional Accomplishments		
Senior Prinipal Engineer II	ARINC Research Corporation Annapolis, MD	09/1978 to 07/1985

Provided reliability improvement engineering services, enterprise information engineering services, executive information systems development, and cost and performance information system development in support of ARINC's Airforce, Navy, and FAA customers to support GPRA mandates for the Federal Government.
- Performed business area analysis, business case analysis, business case development, process analysis, and process reengineering for DoD Corporate Information System, Analyzed, modeled, and reengineered headquarters definition and structure.
- Developed logical databases and corporate data warehouses while also developing interfaces to legacy data sources for automate data exchange. Conceptualized, designed, developed, and implemented the Air Force Inter-site Gateway System for the Air Logistics Command in a

Secure UNIX/Unify/C Environment Gould Supermini PowerNode Computer for worldwide, on-line, and store and forward Air Force logistics transaction management and processing.

- Assisted in conceptualizations, designs, development implementations, and operation effectiveness testing for the Increment IV Engine Diagnostics and Trending Subsystem of the Air Force Comprehensive Engine Management System.
- Design, develop, and implement the Alaskan Air Command Wing Level Information System on a VAX/Oracle/Powerhouse Platform. Defined, Designed, and Implemented Telecommunications Architecture for the Air Force Stock Control and Distribution System and supported Manufacturing Process Reengineering for the Air Force Depot Modernization Program and the specification of Computer Integrated Manufacturing and MRP II Environment for Air Force Depots.
- Researched, analyzed, simulated, and redesigned the Blackhawk Air Data Computer Terrain Following/ Terrain Avoidance subsystem.
- Prepared Turbine Engine Monitoring System (TEMS) Cost Benefit Analysis and Economic Justification Analysis and Report Products, utilized AYK-14 Air Data Computer and 1553 Communication Bus Structure Optimization Analysis to develop a corrected Interface Design.
- Implemented Life Cycle Cost Analysis and Level of Repair Analysis for the Tomahawk Cruise Missile and employed Concept of Operations and Enterprise Model for the Air Force Wing Level Information Requirements (AF WIS).

Work History and Professional Accomplishments		
Engineer	National Security Agency (NSA)	06/1974 to 01/1979

Served as the Program Area Lead for the design and development of tactical field real time signal processing systems.

- Assumed the position of Team Lead for the research and product adaptation of large-scale integrated circuitry into deployed systems for increased performance and suitability to mission needs.
- Designed and developed real time air defenses hardware and software systems for use in critical Agency and military installations abroad.

Work History and Professional Accomplishments		
Electronic Warfare	United States Navy	06/1968 to 06/1974

As a distingusihed Service Combat Veteran:

Electronc Warfare, USS John King	1972 -1974
Engineer - National Security Agency, Ft Meade Marylnd	1968 -1972

Education		
Master of Science, Computer Systems	The American University, Washington DC	1978.
Bachelor of Science, Information Systems, University of Baltimore, 1974.	University of Baltimore, Baltimore MD	1974.

Engineering,	Point Park Pitteburgh PA	1968
Professional Certifications		

NSA Certified Engineer Professionalization Program	1978
NSA Certified Computer Scientist Professionalization Program	1979
GSA Trail Boss 1 - Program Management (Acquisition)	1985
GSA Trail Boss 2 - Program Management (Implementation)	1985
Job Related Training & Certifications: :Dates:	**1968 throuh 2019**
PMI Institute (PMI), Project Planning & Control, Total Quality Management (TQM), Telecommunication, OS Installation and Implementation, DB2 Installation and Administration, Microsoft SharePoint for Administrators, Oracle Database Administrators, Unix Server Administration, Unix Workstation Administration	
Operating Systems: MVS, VM, Digital Equipment (DEC-VAX) UNIX/Linux, DOS, MS Windows	
Software Languages: Perl, Java, JavaScript, C/C++,Pascal, PL/1, COBOL, FORTRAN, Assembler (TI, Hp, IBM), Visual Basic, SQL, HTML, XML, AIXM	
Software Products: Adobe ColdFusion Application Server, Adobe Dreamweaver, FME Server, ORACLE, IBM DB2, PostgreSQL/PostGIS, IIS Web Server, Apache Tomcat, RACF, ACF2, Passport 4GL development, MS Office Suite, MS Office Project Professional, ESRI ArcGIS Server and ArcGIS Desktop, Google Earth/Map API, Google Map Engine (GME).	

CERTIFICATION:

I, _____ Joseph Sciortino _____ _____, do attest that the above information is true and complete.

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SIGNATURE   DATE