Donald Belvin, PMP, SMC

**donald0099@gmail.com**

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| Roles:   * Project Management * Program Management   Infrastructure/SOFTWARE DEV:   * Network Services * Data Center Migration (inc. Construction) * eCommerce, Back Office * POS, Contact Center * IT Audit, Security * METHODOLOGIES:   PMI/PMBOK  ITIL  AGILE  Waterfall  SCRUM  SDLC  Tools:   * MS Project Server * MS Office Suite, Outlook * **Clarity**, SharePoint, Citrix   FORTE, Primavera   * SAP   Industry Application:   * IT * Financial Services * Telecommunications * Manufacturing * Retail * Travel & Hospitality * Healthcare   Education:  **University of Texas**, Arlington, Texas  Graduate study in **Computer Sci.**  **University of Texas**, Arlington, Texas  **B. Sc. Electrical Engineering**  CERTIFICATIONS:   * **Project Management Professional -PMP**, #50486(since 2002 - recertified 6/’16) * **ITIL** * **Scrum Master- SFC, SMC** #105240/105247 | Experience Summary  Tenacious, established “doer" and creative thinker with a reputation of getting the job done and meeting committed deadlines. Strong sense of project ownership. Other strengths encompass International Team Management, Contract Negotiations, Departmental and Project Budgets ($5K - $50M) Planning and Management, Personnel Reviews, Team Building, and Negotiations / Facilitation with multi-functional Teams, Customers and Vendors. Proven ability to coordinate work between internal teams (collaborative style) to create project schedules to deliver for external customers. Ability to create & maintain key relationships with business stakeholders, proactively managing customer and management expectations. Extensive background in requirements and assumptions definition, scheduling and WBS, staffing, SOW development, deliverable definition, contractor selection and management, standards development, risk assessment, project monitoring, operational process development, security, and software development lifecycle.  Skills Inventory  Project Management:   * Project Initiation * Project Planning * Project Development * Project Execution * Project Control * Project Closeout * Database Development * Data Center and Data Mapping * Communication Planning (RACI Matrix) * Resource Planning * Requirements Development * Data Warehousing * Project Schedule * Project Budget * Risk Identification, Analysis, Management * Issue Resolution * Deliverables * Status Reporting * Phase Gate Reviews and Presentations * Executive Project Status Reporting * Off-Shore Project Management * Expert Presentation Skills |

CHRONOLOGICAL SUMMARY of Experience

**Senior Program/Project Manager*– Dallas, Texas***

*Genesis 10 – Bank of America, (contract), September 2016 – May 2017*

As Project Manager for infrastructure projects, was responsible for the management of infrastructure projects, and data center migrations. Established scope, control procedures, analyzed and reported project status; monitored project performance to maintain the quality of services, deliverables, budget, and content. Collaborated and communicated with other project managers and business leaders to coordinate project initiatives and activities. Developed and implemented contingency plans. Development using PMI, PMBOK, Clarity and ITIL methodology. Projects included identity, access management and security control and compliance elements.

* Established scope and requirements, developed documentation
* Identified and procured project resources
* Managed implementation activities
* Proficient in Word, Excel, Visio, MS Project Server and PowerPoint
* Communicated project status of department to business and upper
* Planned, scheduled, monitored and reported on activities related to all projects
* Managed project risk through comprehensive mitigation assessment and planning
* Excellent communication and organizational skills
* Worked on Salesforce
* Had experience in database Management

**Senior Program/Project Manager*– Plano, Texas***

*Hewlett Packard - Autonomy, (contract), August 2013–November 2015*

Senior Project Manager for multiple software development, data center and infrastructure projects. Responsible for the project initiation, elaboration, construction, and transition of multiple projects using PMI (waterfall and agile) methodologies. Projects included application development, firewall security, TCP/IP networking, XML, cloud migrations, and data center migrations (including construction). Managed to timelines and communicated project status. Established scope control processes, analyzed and reported project status; monitored project performance to maintain the quality of services, deliverables, budget, and content. Collaborated and communicated with other project managers, marketing and leaders to achieve project goals and company objectives. Project “rollup”, financials, and resource allocations reported in Clarity. Development using SDLC, PMI , PMBOK, and ITIL methodology (toll gates, critical paths, risk mitigation, deliverables, etc.). Projects included identity, access management and security control and compliance elements.

* Worked closely with business partners in establishing scope, requirements and development of documentation
* Lead meetings and communicated minutes with all stakeholders
* Developed detailed Project Plans and Schedules
* Managed resources and budgets
* Proficient in Project Server, Word, Excel, Visio and PowerPoint
* Communicated project status of department to business and upper management Planned/Maintained RACI matrix, scheduled, monitored and reported on activities related to projects
* Established appropriate metrics for measuring project success.
* Managed project risk through comprehensive mitigation assessment and planning
* Excellent communication and organizational skills, collaborated with all stake holders to achieve successful project goals
* Data Warehousing, Developed Projects Documentation
* Database Data Mapping, Migration, B to B and B to C internet projects
* Developed documentation templates for department and the PMO

**Senior Program/Project Manager*– Plano, Texas***

*McAfee, (contract), May 2012 – January 2013*

As Project Manager for multiple merger projects, was responsible for the project initiation, elaboration, construction, transition of infrastructure projects, and data center migrations (including construction). Managed to timelines and communicated project status and had matrix management responsibility. Established scope control procedures, analyzed and reported project status; monitored project performance to maintain the quality of services, deliverables, budget, and content. Effectively directed both internal and external resources to achieve business solutions within project guidelines. Collaborated and communicated with other project managers and leaders to coordinate cross-project initiatives and activities. Developed and implemented contingency plans. Executed projects in both a waterfall and Agile environments. Project “rollup” and financials reported in **Clarity**. Development using SDLC, PMI , PMBOK, and ITIL methodology (toll gates, critical paths, risk mitigation, deliverables, etc.). Projects included identity, access management and security control and compliance elements.

* Established scope and requirements, developed documentation in support of these requirements
* Proficient in Word, Excel, Visio, MS Project Server and PowerPoint
* Communicated project status of department to business and upper management (C-level) in clear and concise manner
* Planned, scheduled, monitored and reported on activities related to all assigned projects
* Established appropriate metrics for measuring project success.
* Managed project risk through comprehensive mitigation assessment and planning
* Excellent communication and organizational skills
* Developed documentation templates for department
* Firewall security, TCP/IP networking, XML

**Senior Program/Project Manager***– Plano, Texas*

*Capital One, (contract),November 2011 – April 2012*

As Project Manager for multiple infrastructure projects, was responsible for the project initiation, elaboration, construction, and transition of data center, and infrastructure development projects. Managed resources and project components, including external business entities and vendors. Was responsible for the IT construction infrastructure at banks, call centers, data centers(including construction)and back offices. Was the principle contact with the client PMO and various business units. Executed projects in both a waterfall and Agile environments. Projects included identity, access management and security control and compliance elements.

**Senior Program/Project Manager *– Irving, Texas***

*VHA, (contract),August 2010 – April 2011*

As Project Manager for multiple simultaneous IT projects, was responsible for the project initiation, elaboration, construction, and transition of software development projects within an Agile framework. Applications facilitated eCommerce and analysis of spend and savings data for the VHA family of companies as well as affiliates and member organization in the Health Care industry. Managed resources and project components, including external business entities and vendors. Was the principle contact with the client PMO and various business units. Environments and technologies included XML/Soap Services, TCP/IP protocols, firewall security, .NET, SharePoint, MicroStrategy, OOAD**,** TopTeam, Release Management and, Windows. Project Management utilized SDLC, PMI, and ITIL methodologies. Managed development of a push eMail application. Projects included identity, access management and security control and compliance elements.

* Established scope and customer requirements, content, and release activities
* Negotiated functionality with different business entities within the enterprise and with vendors
* Managed both contract and direct professionals (BA, Developers, QA, and deployment resources)
* Database Development and Data Mapping
* Defined and developed risk mitigation strategies for all projects
* Reported project status and risks to MIS and business entities
* Established technical architecture requirements
* Established resource man-loading and balancing of labor pool for the development and test teams

**Senior Program/Project Manager *– Irving, Texas***

*Verizon, (contract),January 2010 – June 2010*

As Project Manager for the Consolidated Voice Portal project, was responsible for the project integration, scope, planning, software development, testing, and deployment of multiple applications. Applications facilitated eCommerce and both the end customer and service technicians in testing and troubleshooting voice, data, and video problems, via phone and voice technologies, thus reducing call center cost. Managed resources and project components across the U.S. and off shore, including external business entities and vendors. Was the principle contact with the PMO and various business units. Environments and technologies included .NET**,** SDLC**,**FORTE, Release Management and Windows and Agile.

* Established and negotiated customer requirements, release content, and schedules
* Developed digital “dashboard” to report projects status
* Negotiated functionality with different business entities and with vendors
* Managed both contract and direct professionals in local, remote, and off shore locations
* Established resource balancing of labor pool for the development and test teams
* Established technical architecture requirements
* Project “rollup” reported in Forte.
* Firewall security, TCP/IP networking, XML

**Senior Program/Project Manager *– Southlake, Texas***

*Travelocity, April 2005 – January 2009*

Senior Project Manager for multiple components for both business and leisure eCommerceproducts.Managed the sustaining engineering and business enhancements of the leisure web site, with international and offshore development teams.Managed improvements of both the business and leisure products of the support desk. These applications were the primary support tools used by the help desk in resolving customer issues and questions and a prime component in the Travelocity Guarantee. Responsible for the identification, trade-off analysis, and prioritization of enhancements and projects for these applications. Team improved performance and functionality of these products 30-50% while adding new business customers without an increase in staff.  Projects included identity, access management and security control and compliance elements.

As the Sustaining Engineering Product Manager for international products, was responsible for prioritization, scheduling, planning, development, testing, budget, and implementation of maintenance and enhancements to Travelocity’s international web products. This includes Travelocity.co.uk (United Kingdom version), Travelocity.de, flug.de, travelchannel.de, (German versions), odysia.fr (French version), and Travelocity.ca (French and English versions). Set priorities and resolved urgent issues with business stakeholders, guided developers in issues resolution, worked with QA test team to qualify fixes, and worked with configuration management to get fixes implemented into production. Work spans multiple lines of business (AIR, CAR, and CRUISE) and requires issue resolution with multiple teams. Primary point of contact for international business and off shore development stakeholders in getting issues resolved and implemented into production. Managed business, development, and QA stakeholders located in the US, UK, France, Germany, and India. Increased issue resolution volume by tenfold. Methodologies included AGILE, SDLC**,** Waterfall, and PMI as well as SQL and database maintenance. Environments and technologies included .NET, JAVA, UNIX, Web Servers, firewall security, TCP/IP networking, XML, Release Management, and Windows. Established technical architecture requirements. Project Management utilized SDLC, PMI, and ITIL methodologies. Supported VDI (Citrix) rollouts.

**Senior Analyst*– Dallas, Texas***

*7-Eleven, Inc., October 2004 - February 2005*

As Senior Analyst for the Sarbanes-Oxley compliance project, was responsible for the identification, analysis, testing, and verification of business and IT controls, security monitoring, and security procedures for financial applications. Analysis includes identification of non-compliant controls and processes and recommendations for remediation. Worked with all levels of client staff and vendors (EDS). Planned approaches and developed test and validation documentation for the ORACLE applications used by this client.

**Senior Analyst*– Houston, Texas***

*Jay R. McDermott, August 2004 – October 2004*

As Senior Analyst for the Sarbanes-Oxley compliance project, was responsible for the identification and analysis of business and IT controls, security monitoring, and security procedures for financial applications. Analysis included identification of gaps and recommendations for remediation of processes and controls to bring applications into compliance with the Sarbanes-Oxley act. Worked with all levels of client staff including the CIO. Established analysis protocols and documentation templates. Planned approaches and provided status to client management.

**Senior Project Manager*– Dallas, Texas***

*Homecomings, February 2004 – August 2004*

As Project Manager for the Virtual Contact Center, was responsible for the business project integration, scope, quality, risk assessment, planning and controlling, software development, budget, testing, and deployment of these enterprise critical applications that support the mortgage contact center for Homecomings, a unit of GMAC-Residential Funding Corp. Established and negotiated customer requirements and negotiated functionality with diverse business interests within the enterprise.  Environments and technologies included .NET, IVR, Release Management, Agile and Windows. Projects included identity, access management and security control and compliance elements.

* Developed and implemented cost saving strategies that saved client more than $50K
* Established and negotiated business and IT requirements
* Established and maintained project plans, schedules, and reports
* Specified acceptance criteria and deliverables
* Managed development, test, and deployment of software packages
* Managed project risk and drove project to schedule
* Negotiated functionality with different business entities within the enterprise
* Established technical architecture requirements

**Senior Project Manager*– Irving, Texas***

*Verizon, (contract),April 2003 – January 2004*

As Project Manager for the Verizon.com By Phone voice portal project, was responsible for the project integration, scope, planning, software development, testing, and pilot deployment of this application. Application allows the user to access, via phone and voice technologies, some of the most popular features of Verizon.com. Managed beta level testing in a pilot program to improve product quality and the user experience. Managed the interface with other business and technical units. Successfully integrated UML use cases for software development and PMI methodologies in an OOD/SOA/Agile environments.

* Managed off shore and domestic development teams.
* Established and negotiated customer requirements
* Developed digital “dashboard” for projects status
* Negotiated functionality with different business entities within the enterprise
* Managed both contract and direct professionals in local and remote locations
* Established resource balancing of labor pool for the development team
* Established technical architecture requirements

**Senior Project Manager*– Dallas, Texas***

*Bank of America, (contract),June 2002 – September 2002*

As Project Manager for the Bankruptcy and Courts applications, was responsible for the business project integration, scope, quality, risk assessment, planning and controlling, software development, testing, and deployment of an enterprise critical application that tracked financial transactions for federal bankruptcy courts. He established and negotiated customer requirements and negotiated functionality with diverse business interests within the enterprise.

**Senior Project Manager*– Irving, Texas***

*Verizon, (contract),August 2001 – May 2002*

As Project Manager for Verizon.com project, was responsible for the planning, business process analysis/reengineering, risk assessment, software development, testing, deployment, and sustaining engineering, of the credit, payment, and billing components for the web site and eCommerce(Please see <http://www.verizon.com/>). Managed both on shore and off shore development teams.

* 2002 winner of the Verizon Team Excellence
* Establishment of the web site as a marketing, branding, and communication
* Lead primary interface between development and the project management office (PMO)

**Director – Web Portal*– Plano, Texas***

*TRANSPLACE.COM,October 2000 – July 2001*

As web portal director was responsible for the company’s overall web and E-commerce presence, including use of the internet as a business channel for conducting e-commerce, application delivery, marketing, branding, and communication.

* Site was named “Best of the Web” by Forbes
* Developed the processes and established the multi-organizational teams that managed the consistency, look and feel, and site content
* Analyzed business processes and directed reengineering efforts for optimization to take full advantage or the web
* Principle architect of the sites’ look and feel, and navigation

**Development Manager***– Dallas, Texas*

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| *Wyndham International, January 2000 – September 2000* |  |

Technical Environment: Oracle, Essbase, SUN NETRA T1 Web Servers, SOLARIS OS, Apache, Java, BEA WebLogic, C, XML/Soap Services, SQL, Cognos, Waterfall

Was responsible for the Wyndham ByRequest E-commerce/Internet project, the marketing, CRM, and advertising cornerstone for Wyndham. Also managed development of a push eMail application. These included all IT project aspects including analysis and synthesis of business requirements; direction of database (ORACLE) and code development (C++, JAVA); direction of test/deployment activities; determination of staffing levels, resource requirements and budgets; scheduling of resources; risk assessment and mitigation strategies; presentations to IT and business entities; direction of production support/problem resolution and enhancement/maintenance activities; and assessments of emerging technologies. Developed detailed process workflows and specifications in an OOD/SOA environment.

**I/T Specialist – Systems Management***– Dallas, Texas*

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| *IBM Global Services, April 1996 – January 2000* |  |

CompUSA POS Project

Directed the development and implementation of a Credit Communication Interface from the IBM 4690 POS system to the CompUSA legacy systems.  The project included real time interfaces for credit authorizations, credit settlement, and credit funding. He directed internal and contract resources. He directed interface development between legacy credit systems and SAP. His tasks required development and testing of new interface software, including real time interfaces for credit authorizations, credit settlement, and credit funding. Implementation was awarded “Implementation of the Year”. Managed the credit components of the migration to SAP.

CompUSA / TANDY COMPUTER CITY SPS (Sears) Payment System / Merger Project

Directed team of developers, testers, and implementation specialists in incorporating a new credit provider into the CompUSA legacy credit system. Timely implementation of this provider allowed the client to avoid a $10 MILLION termination fee from SPS (Sears Payment Systems) as part of the acquisition of the Tandy Computer City stores. Directed internal and contract resources. Directed a team of contract support developers during the acquisition of the Tandy Computer City stores into CompUSA. Was responsible for providing inventory, valuation, and financial data to the business management team in support of this acquisition.Interfaced with all levels of CompUSA and Tandy management during this transition phase. Projects included identity, access management and security control and compliance elements.

CompUSA Central Credit Systems Project

Directed team of developers in support of all the CompUSA Central Credit Systems. Design and development included real time interfaces for credit authorizations, credit settlement, and credit funding. Analyzed new credit changes, enhancements and features. Made recommendations for improved performance, maintainability, and reliability. He developed detailed workflow processes and specifications in an OOD/SOA environment. Facilitated E-commerce transactions.

**Senior Project Manager***– Houston, Texas*

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| *Independent Consultant – Compaq, October 1994 – March 1996* |  |

Managed the requirements definition, vendor analysis, software development, test, and program integration of 3rd party graphics drivers for Compaq consumer products. Tasks included vendor qualification, software design evaluation, risk analysis, and management and scheduling of Compaq and vendor resources.

Primary interface for the vendor and other Compaq engineering and business entities, including international units. Developed and presented technical and schedule analysis to product core and tiger teams. Interfaced with all levels of division management, international units, various business entities, design, manufacturing, and sustaining engineering. Managed the Sustaining Engineering team for the consumer software business unit.

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**Senior Systems Analyst** *– roles encompassing Project Manager and  Principle Architect*

*Eagle Technical Services, February 1993 – September 1994– Houston, Texas*

Assigned to NASA through Eagle Technical Services responsible for the analysis, design, programming, testing, and documentation of the simulation objects database. This object database provided a method to identify, document, and track data parameters and objects for the real-time simulation programs of the Space Station Central Test Facility.

Principle architect responsible for the design, development, and programming of the Electrical Power Generation subsystem of the Primary Electrical Power simulation. Designed simulations for the Photo Voltaic Array Wing, Sequential Shunt Unit, Beta Gimbal Assembly and Solar Array Wing. Developed simulations in the ADA programming language, hosted on a VAX machine in a UNIX environment. Final target processors for this code were Silicon Graphics and Alpha machines. Simulations utilized to integrate and test the actual flight hardware/software of the Space Station. Provided technical direction to team members as to the end-to-end workings of the Space Station Electrical Power System.Implemented an object-oriented methodology for simulations.

As Project Manager for the Simulation Consolidation Team, worked with other simulation vendors to determine various simulation fidelity levels and their estimated lines of code and coordinated design efforts to avoid redundant and missing code. Personal analysis performed was instrumental in effecting design and management decisions at NASA.

**Associate – Space Systems Practice***– Washington, DC*

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| *Booz, Allen & Hamilton, Inc. December 1984 – October 1992* |  |

Eight years at Booz, Allen and Hamilton included progressively responsible roles of Associate - Senior Program Manager, Project Manager/Program Manager for the Space Systems Practice. Held Secret Clearance. Also, received NSA COMSEC Endorsement on US Navy Diego Garcia Project.

*Senior Program Manager for Part - Task Trainer Subsystems of Space Station Graining Facility*

Directed NASA programmers in the execution of this task. Liaison between NASA centers, headquarters and other contractors. Implementation of the simulator saved the program $8.3 MILLION annually. Responsible for the development of the Part-Task Trainer. Analyzed system requirements and candidate configurations as well as vendor proposals. Developed a consensus with the target user community as to the most effective approach to implement the requirements and the user's needs. This trainer, part of the Space Station Training Facility, required the analysis and integration of numerous Software / Hardware approaches.

*Senior Program Manager for Subsystems*

Designed, developed, coded, and tested the software and graphical user interface for this system. This software was written in Object Oriented ADA and was hosted on a Silicon Graphics IRIS platform with user interface through X-Windows and MOTIF. This was the first team to successfully integrate this platform and the new support software. The beta versions of the software used required extensive interaction with the vendors to resolve timing, communication, and interface issues.

*Project Manager - Space Station Engineering and Integration Contractor (SSEIC)*

Responsible for the SDLC (requirements definition, analysis, design, coding, testing, implementation, and documentation) of the Integrated Master Measurement and Command List Information System. Object database developed in Oracle with Essbase and hosted on PC, VAX/VMS and IBM 3090 platforms. Developed Support Software in object oriented C, hosted on same platforms. Project management was based on PERT paragons. Managed both domestic and off shore stakeholders.

Task required an extensive understanding of the user communities' needs and building a consensus for the design, maintenance, and administration of this information system. Built to assist space station design teams, managers, and logistical support personnel, this ORACLE database required integration of domestic and international partners concerns, requirements, and database issues. The task interfaced with all levels of NASA and other contractor teams.

Acted as mentor to users and team members as to the effective use of this object database. Developed comprehensive requirement documents, presentations, and interface specifications. Made numerous presentations to all levels of NASA and contractor management in support of this project. Received "Letters of Commendation" from NASA, team member Grumman, and Booz, Allen & Hamilton for the work done on this project. Implementation of this system is saving the program office $2.5 million annually.

*Senior Engineer / Program Manager, Command Support Practice - US NAVY NASTRACS*

Project Manager and Navy Point of Contact for the Diego Garcia NASTRACS Radar System.Supported the Naval Air Systems Command in the analysis, integration, implementation, and documentation of this software intensive tracking system. System is hosted on a Data General machine running software written in FORTRAN, ADA, and Assembly.

Directed on-site engineers in Diego Garcia and in Washington, D.C. in support of this project. Represented the NAVY at design reviews, audits, progress reviews, and acceptance tests. Wrote and conducted the NAVY system operational acceptance test. Responsible for both the technical and programmatic aspects of this project. Careful review of contract deliverables and analysis of contract specifications resulted in saving client nearly $2 million during the development and installation phases. Held Secret Clearance and received NSA COMSEC Endorsement.

*Senior Engineer - Project / Program Manager, Aircraft Systems Engineering Practice*

Software Subsystem Project Manager assigned to the Navy's TACAMO Strategic Engineering Communication Program, responsible for all phases of software analysis including development of specifications and requirements, evaluation of design and life cycle issues, testing, and validation of final product. Managed the software system engineering and integration support for the development of Advanced Digital Communication Systems (Enhanced Verdin System and Compact Very Low Frequency System) on-board the TACAMO aircraft. Systems coded in Assembly and hosted on proprietary processors. Represented the Naval Air Systems Command at design reviews, management reviews and audits. Provided technical expertise in review and analysis of contract deliverable requirement list items as well as level A, B, and C specifications. Developed interface software linking a Sybase RDBMS to an automated reservations and financial system developed in C and PowerBuilder.

**Electronics System Engineer (Senior Software Design Engineer)***– Grand Prairie, Texas*

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| *Northrop Grumman Corp. – Vought Aircraft (LTV), October 1983 – December 1984* |  |

Lead Software Design Engineer in the VOUGHT MISSILES and ADVANCED PROGRAMS DIVISION of the LTV Aerospace and Defense Company. Directed a team of software engineers in the analysis of system requirements, software design, coding, and integration of guidance and launch control software for an anti-missile-missile; designed to track and destroy incoming missiles.

Software written in object-oriented ADA and M68000 assembly. The development host was a DEC VAX running VMS. Final flight software was cross-compiled to M68000 assembly to run in the missile's embedded processor. This task included development of software and firmware for the target processor, program loader (IPL), and launch control system. Developed test practices, plans, procedures, and documentation in support of acceptance testing.

**Senior Software Engineer***– Fort Worth, Texas*

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| *Lockheed Martin Corp. (General Dynamics), October 1982 – October 1983* |  |

Lead Test Engineer in the Research and Engineering Department with responsibility for all phases of avionics software development, integration, and testing for Enhanced Fire Control Computer on the F-16 aircraft. Responsible for the design, coding, validation and flight checkout of these flight programs using high-fidelity computer simulations and flight-testing.

Developed Software in Assembly and FORTRAN and hosted on a variety of machines, including Perkin-Elmer 832's. Directed a team of engineers in the development of test procedures and practices for the validation of F-16 real-time flight software.

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| **Test Director** *– Houston, Texas*  *Hughes Training – LINK Division (Link Flight Simulation), January 1981 – September 1982* |  |

As a System Test Director in the Shuttle Mission Simulator Complex, responsible for system integration and integrity. Responsibilities also included development of simulator software, validation of shuttle software, check-out of shuttle flight operations and payload integration procedures. Established interface procedures and software for the incorporation of data pool objects with the simulation software.

Responsible for the development and delivery of standardized simulator procedures and documentation of all simulator operations including problem identification, contingency procedures, and mission support procedures for space shuttle flights. Work also included integration of the simulator complex with shuttle flight mission control and shuttle support facilities worldwide. Prepared and presented simulator updates for management and the astronaut corps.