# Scott Bossert

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## PROFESSIONAL SUMMARY

Over 5 years leading projects for the U. S. Department of Defense.
Over 16 years designing, developing and testing application software for the U. S. space program.
Over 7 years managing organizations in support of the U. S. space program.
Over 3 years designing and developing application software for the U. S. Air Force.

## PROFESSIONAL EXPERIENCE

**Lockheed Martin IS&GS Defense –** San Antonio, Texas                    2009 - Present
*Senior System Engineer – Defense Civilian Personnel Data System Program*
- Technical lead of 14 administrators, including Windows system administrators, network administrators, and desktop support technicians.
- Acted as project lead and lead system engineer for several hardware and software deployments and upgrades.
- Projects include upgrade of desktop infrastructure from Windows XP to Windows 7, upgrade of server infrastructure from  Windows Server 2003 RTM and R2 to Windows Server 2008 R2 and upgrade of SAP BusinessObjects XIR3 to BusinessObjects Business Intelligence v4.0.
- Acted as disaster recovery lead.  Responsible for planning and implementation of annual disaster recovery exercise in which customer systems are deployed at a geographically distant location from production and are exercised in parallel with production to demonstrate the ability to recover from a disaster.
- Project employs several large production and development Oracle databases to manage human resource records for over 850,000 civilian employees of the U. S. Department of Defense.

**Lockheed Martin Mission Services –** Houston, Texas                       2009
*Manager of Facility System Engineering – Facilities Development and Operations Contract*
- Managed organization of 20 system engineers.
- Responsible for the design of changes to Johnson Space Center's (JSC) Mission Control Center (MCC), Integrated Planning System (IPS), Shuttle Mission Training Facility (SMTF) and Space Station Training Facility (SSTF) in support of the Space Shuttle and International Space Station (ISS) flight control teams.
- Responsible for defining and documenting all interfaces between NASA's international partners and the MCC for the purposes of sending commands to and receiving telemetry from the ISS.
- Responsible for the design of all changes to the MCC and IPS to support the Orion vehicle.

**Lockheed Martin Mission Services –** Houston, Texas                       2004 - 2008
*Manager of Systems and Strategic Engineering – Mission Support Operations Contract*
- Managed organization of 38 system engineers.
- Managed a cost account with an annual budget of $6M.
- Responsible for the design of all changes to Johnson Space Center's (JSC) Mission Control Center (MCC) and Integrated Planning System (IPS) in support of the Space Shuttle and International Space Station (ISS) flight control teams.
- Responsible for defining and documenting all interfaces between NASA's international partners and the MCC for the purposes of sending commands to and receiving telemetry from the ISS.
- Responsible for the design of all changes to the MCC and IPS to support the Orion vehicle.
- Major projects overseen included 1) Deployment of Linux workstations and servers, running Red Hat Enterprise Linux, across several MCC and IPS subsystems, 2) Deployment of Backup Control Center for the International Space Station in Huntsville, Alabama, 3) Consolidation of user accounts via the use Lightweight Directory Access Protocol (LDAP), 4) Upgrading MCC and IPS LANs from FDDI (Fiber Distributed Data Interface) to Switched Ethernet, and 5) Procurement of a COTS voice system to replace the mission critical voice equipment deployed at JSC and several other NASA centers.

**Lockheed Martin Space Operations –** Houston, Texas                      2003 – 2004
*Manager of System Administration - Consolidated Space Operations Contract*
- Managed organization of 18 system administrators.

- Responsible for administration of operational Unix and Windows workstations and servers in the MCC and the development environments.

**Lockheed Martin Space Operations –** Houston, Texas                                  2000 – 2003
*Software Engineering Lead – Consolidated Space Operations Contract*
- Technical lead for project to design and develop a system to schedule Space Network resources (TDRSS satellites) through Goddard Space Flight Center (GSFC) and report on the Space Network utilization.
- Technical lead for project to upgrade the system which scheduled Ground Network resources through GSFC.
- Engineer on project to relocate the U. S. space program's Network Control Center (NCC) and Auxiliary NCC from GSFC to White Sands Complex in New Mexico.

**Lockheed Martin Space Operations –** New Orleans, Louisiana                          1999 – 2000
*Lead Delivery Engineer – New York EZ-Pass Electronic Toll Collection System*
- Planned software and hardware deliveries for the customer service center of the E-ZPass toll collection project.
- Coordinated all software releases into the test and production environments and oversaw resolution of all problems.
- Project employed large production and development Oracle databases to manage over one million customer accounts, including tracking of tolls and generation of statements.

**Lockheed Martin Space Operations –** Houston, Texas                                  1998 – 1999
*Manager of Operations, Integration and Test Department – Mission Systems Contract*
- Managed organization of 110 engineers.
- Responsible for integration, testing and delivery of all development and sustaining engineering releases for the MCC and IPS.

**Lockheed Martin Space Operations –** Houston, Texas                                  1996 – 1998
*Integration Engineer – Mission Systems Contract*
- Integrated and delivered all software and hardware products for the Consolidated Communications Facility (CCF) of the MCC.
- Prime point of contact for analysis and resolution of all CCF problems cited during Space Shuttle simulations and missions.

**Unisys Corporation –** Houston, Texas                                              1992 - 1996
*Senior Software Engineer – Mission Systems Contract*
- Designed and developed MCC software applications for processing telemetry data from the Space Shuttle.
- Drafted requirements for and designed and developed software applications for monitoring telemetry data from the International Space Station.
- Gained extensive knowledge of the C and C++ programming languages, the Unix operating system and object-oriented design techniques.

**Unisys Corporation –** Houston, Texas                                              1989 - 1992
*Project Manager – Mission Systems Contract*
- Acted as supervisor and technical lead of a small group performing system testing for an MCC hardware and software upgrade.
- Developed test procedures to test new capabilities and to regression test existing capabilities.
- Integrated and installed software builds and Space Shuttle flight databases for testing.

**Unisys Corporation –** Houston, Texas                                              1986 - 1989
*Software Engineer – Space Transportation System Operations Contract*
- Designed, developed, tested and sustained telemetry applications for the MCC.
- Resolved critical problems occurring prior to and during Space Shuttle missions.

**Litton Mellonics System Development –** Houston, Texas                               1983 - 1986

*Software Engineer – Data System Modernization Contract*
- Developed and maintained telemetry application software for the upgrade of the U. S. Air Force satellite communications network.

**Jefferson Associates, Inc. –** Houston, Texas                                                    1982 - 1983
*Software Engineer – Ground Based Space System Contract*
- Designed, developed, tested and sustained telemetry applications for the MCC.

## COMPUTER FAMILIARITY
**Hardware:**  HP DL580, HP BL460c, IBM RS/6000, DEC Alpha, PC, IBM mainframes (309x, 308x, 370).
**OS:**        IBM AIX, Digital Tru64 Unix, Red Hat Enterprise Linux, Fedora Linux, Microsoft Windows XP, Microsoft Windows 7, MVS, VMS.
**Languages:** C, C++, Java, Ada, IBM 370 Assembly, FORTRAN, HTML, Javascript, various Unix shells.

## EDUCATION

**University of Georgia**                                                                     Athens, Georgia
Bachelor of Science, Computer Science, GPA 3.88                                          Graduated:  1982

**University of Houston Clear Lake**                                                          Houston, Texas
Introductory Ada course (1983).

**Training**
Capability Maturity Model for Integration (2005), Principles of System Engineering (2004), Earned Value Management (2004), Program Management I (1999), Management II (1998), Management I (1997), C++ (1994), C (1993), Ada (1992). Object Oriented Design (1992), Unix (1989, 1993).