Mike Swing

Summary

Oracle EBS R1213, R122 Upgrade Expert and Demantra/ASCP Performance Tuning Specialist

Oracle ACE, Oracle 7, 8, 8i Oracle Certified Professional (OCP) DBA with 22+ years experience in administration, design and development of Oracle7, Oracle8, 8i and Oracle 9i, 10gR2, 11gR2,12c relational database management systems; **20 + years** experience implementing, administering and **upgrading Oracle Applications** 10.7, 11.0 11i, R12, R12.1.3, R12.2.3, R12.2.4, R12.2.5, R12.2.6.

Author of fourteen books, including my latest book, "the little r12.2.6 upgrade essentials", the OAUG sponsored books, "the little r12.1.3 upgrade guide", "the little r12.1.3 architecture guide", and "the little r12.1.3 upgrade tuning and troubleshooting guide".

Extensive experience tuning the Oracle database and enhancing the performance architecture for EBS.

Six platform migrations from Unix to Linux as part of 11i, R12.1 and R12.2 EBS Upgrades.

Implemented and upgraded **Oracle Enterprise Manager** 9i, 10g, 11g and 12c.
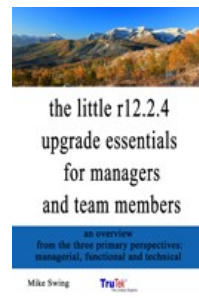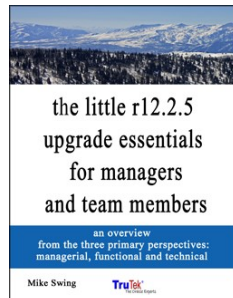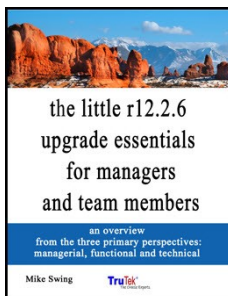
Implemented Oracle Applications with 4 clients, **upgraded Oracle Applications with 15 clients**, re-implemented 1 client. Seven (**7) production upgrades to Release 12.1.3, Three production upgrades to 12.2, one production upgrade to 12.2.6.**

Eleven+ years as an **11i & R12 Upgrade Project Manager**: 17 upgrades, and 1 re-implementation.

Instructor for Oracle training classes: R12.2 DBA Concepts and Administration, R12.1.3 Upgrade, R12.2.5 Upgrade, Workflow Builder, Administration and Business Events, R12.2 System Administration, R12.2 Security, 12c Database Administration, 12c SQL Fundamentals, 12c OCA DBA I and 12c OCP DBA II.
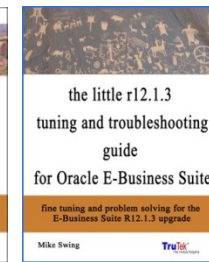
Honors, Books, Articles and Presentations

Latest Books:

the little r12.2.6 upgrade essentials for managers and team members, April 2017
the little r12.2.5 upgrade essentials for managers and team members, April 2016
the little r12.2.4 upgrade essentials for managers and team members, April 2015

Other Books:

the little r12.2.3 upgrade essentials for managers and team members, July 2014
the little r12.1.3 upgrade tuning and troubleshooting guide, July 2013
the little r12.1.3 architecture and concepts, April 2012
the little r12.1.3 database upgrade guide, June 2012
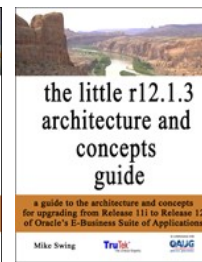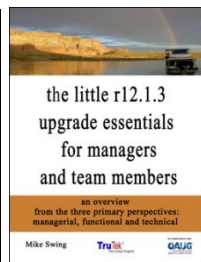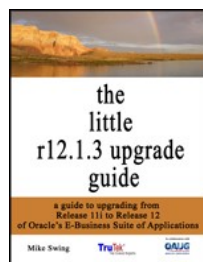*the little r12.1.3 upgrade guide*, April 2011, sponsored by OAUG
the little r12.1.3 upgrade essentials for managers and team members

the little r12.1.2 upgrade essentials for managers and team members
the little r12.1.2 upgrade guide, April 2010, sponsored by OAUG
the little r12.1 upgrade guide, November 2009
the little r12 upgrade guide, May 2009

Articles:
OAUG Summer 2013 Insight Magazine, *10 Ways to Speed Up your R1213 Upgrade*
OAUG Winter 2012 Insight Magazine, *The Big Picture – Upgrading to R12.1.3*

Presentations and User Group Participation:
OAUG Collaborate 2017 – Full day OAUG sponsored workshop – the R12.2.6 Technical Upgrade
OAUG Collaborate 2017 - EBS Customization and Alternatives Panel
OAUG Collaborate 2017 - ADOP and 12.2 Customizations presentation
UTOUG Training Days 2017 - ADOP and 12.2 Customizations
UTOUG Training Days - EBS R12.2 Upgrade Panel
RMOUG Training Days 2017 - Tuning ASCP and Data Collections in R12.2
Oracle Open World 2016 - Panelist for Customizations and Alternatives SIG
LATAM 2016 - Latin America Oracle User Group presentation - ADOP and 12.2 Customizations
Apps Tech 2016 - ADOP and 12.2 Customizations - How to Create Custom Cross Edition Triggers
OAUG Collaborate 2016 – Full day OAUG sponsored workshop – the R12.2.5 Technical Upgrade
OAUG Collaborate 2016 - EBS Customization and Alternatives Panel
UTOUG Training Days - EBS R12.2 Upgrade Panel
Oracle Corporation – EBS ATG Customer Advisory Board 2012, 2013, 2014, 2015
OAUG AppsTech15 - The Big Picture of the R12.2.4 Upgrade
OAUG Collaborate 2015 – Full day OAUG sponsored workshop – the R12.2 Technical Upgrade
OAUG Collaborate 2015 – Presentation - Tuning ASCP and Data Collections in R12
OAUG Collaborate 2015 - Panelist for the R12 Upgrade Panel and CEMLI Panel
Oracle Open World 2014, Panelist for the R12 Upgrade Panel and CEMLI Panel
Featured Speaker at OAUG Connection Point, AppsTech, Pittsburgh July 2014 - the R12.2 Technical Upgrade
OAUG Collaborate 2014 – Full day OAUG sponsored workshop – the R12.2 Technical Upgrade
OAUG Collaborate 2014 - Panelist for the R12 Upgrade Panel and CEMLI Panel
Oracle Open World 2013, Panelist for the R12 Upgrade Panel
Featured Speaker at OAUG Connection Point, AppsTech, Pittsburgh July 2013
OAUG Collaborate 2013 – Full day OAUG sponsored workshop – the R1213 Technical Upgrade
OAUG Collaborate 2013 - CEMLI Panel
OAUG Collaborate 2013 - The Big Picture of the R12.1.3 Upgrade
UTOUG Training Days - The Big Picture of the R1213 Upgrade
RMOUG 2013 – Six Easy Pieces - Performance Tuning Packaged Applications
OAUG CP 2012, Austin, San Diego - The Big Picture of the R12.1.3 Upgrade
RMOUG 2012 – The Big Picture of the R12.1.3 Upgrade
UKOUG 2011 – Six Easy Pieces - Performance Tuning Packaged Applications
OAUG Connection Point 2011 Atlanta – Presenter and Panelist
Oracle Open World 2011, Presenter and Panelist, the R12.1 Upgrade Panel
OAUG Connection Point R12.1 Upgrade – The Big Picture, the R12.1.3 Upgrade
RMOUG 2011 – Six Easy Pieces - Performance Tuning Packaged Applications
RMOUG 2010 – Dead Connection Detection – Who Sniped my Session?

Oracle Open World 2009 - Parallel Concurrent Processing Failover and Load Balancing 11i & R12

RMOUG 2009 – The Release 12 Upgrade is Easy!

Collaborate 2009- Parallel Concurrent Processing Failover and Load Balancing 11i & R12

RMOUG 2008 - How to do RAC Wrong!

Collaborate 2008 – Migrate 11i to 64-bit 10gR2 RAC using DataPump

UTOUG Training Days Presenter (97-2013) Release 12 Architecture, R12 Upgrade

RMOUG 2007 Training Days – 11i-R12 DBA Best Practices

IOUG Boot Camp Presenter November 2006 – 11i Apps DBA Concepts and Admin

OAUG Presenter (99,00,01,02,04) – Upgrading to 11i, 11i Security

E-OAUG Presenter (99,00,01,02) – Oracle Application Patch Management & Testing

Oracle Master – Oracle8 Database -1999

Oracle OCP 8.0 1999

Oracle Master – Oracle Applications Implementer – 1998

Oracle OCP 7.3 1998

Recent training classes attended as a student:

- Beating the Oracle 11g Optimizer – Jonathan Lewis 2012
- Advanced Oracle Performance Tuning and Troubleshooting – Tanel Poder, 2009
- Advanced PL/SQL – Steven Feuerstein, 2009
- Oracle 11g Backup & Recovery using RMAN – Robert Freeman, 2008
- Optimal SQL – Jonathan Lewis, 2008

More than **19 +** years of experience as an **Applications DBA** Versions 10.4, 10.6, **10.7,** 11.0.1, 11.0.2, **11.0.3, 11.5.3,** 11.5.5, **11.5.7, 11.5.8, 11.5.9 and 11.5.10, 11.5.10.2** and **Release 12.0.4, 12.0.6, 12.1.1, 12.1.3, R12.2.3, R12.2.4, R12.2.5, and R12.2.6.**

20+ years Upgrading Oracle Applications 10.7, 11.0.3, 11.5.8, 11.5.10.2, R12.0.6, R12.1.1, R12.1.3, R12.2.

Over **18 +** years of experience in **application patching** using **ad tools, 13+ years cloning 10.7, 11.0.3 and cloning with RapidClone for 8+ years.**

More than 9 years administering and upgrading Jinitiator, JRE/JDK, implementing OATM, Oracle Application Server, ETL with Informatica and OWB, OBIEE administration, Oracle 9i/10g Application Server.

Mentored DBA's in the implementation, **upgrade and administration of Oracle Applications.** Extensive experience in backup/restore/disaster-recovery, **RMAN**, DataGuard, **database upgrades**, **patching, cloning**, and **Unix Systems Administration. More than 2 years configuring DataGuard.**

Over 20+ years of experience in **Upgrading Oracle applications** on various UNIX systems: SUN, AIX, HP-UX, and Linux (Red Hat – Rel 2.1, 3, 4.2, 4.3, 4.4, 4.5, 5, 6 and OEL 4,5,6 and SLES).

Migrated single node database to RAC cluster in conjunction with 11i Upgrade. Configured 11i to work with 10gR2 RAC. First experience with OPS was in 1997, current experience is with 10gR2 RAC on Red Hat Linux, using ASM and Grid Control to manage the cluster.

More than **eight years designing and developing custom database applications**. Development methodologies include Structured Design – Gane and Sarson, Object Oriented Design – Rumbaugh & Jacobson, with UML. Highly proficient with logical and physical design tools, including Oracle Designer, Erwin, and several older tools (StP, Bachmann, LBMS, and others).

Technical Skills

ERP:	**Oracle Applications eBusiness suite 10.4, 10.6, 10.7, 11.0.2, 11.0.3, 11.5.3, 11.5.5, 11.5.7, 11.5.8, 11.5.9, 11.5.10, 11.5.10.2, 12.0.4, 12.0.6, 12.1.1, 12.1.2, 12.1.3, 12.2.3, 12.2.4, 12.2.5**
Modules:	Financials, Purchasing, Manufacturing, ASCP/VCP/SNO, WMS, HR/Payroll, Demantra, Agile
Database:	**Oracle 6.2.7/ 7.0.16/ 7.3.4/ 8.0.4/ 8.0.5/8.0.6/ 8.1.5/ 8.1.6/ 8.1.7/ 9.0.1.4 / 9.2.0.6, 9i RAC, 10gR1, 10gR2 10.2.0.2, 10.2.0.3, 10.2.0.4, 10gR2 RAC, 11g, 11.1.0.6, 11.1.0.7, 11.2.0.3, 11.2.0.4, 12.1.0.2**
Tools:	Grid Control, OEM 11g, 12c, XPLAN, TOAD, AD Tools, Erwin, Designer, Workflow, EXPLAIN plan, TKPROF, StatsPack, SQL Loader, Export, Import, DataPump, RMAN, Dataguard, **AWR, ASH**, oidadmin, dcmctl
Architecture:	**10gR2 RAC**, VMWare, EMC MirrorView/SnapView/SnapClone and BCV, **9i Real Application Cluster (RAC)**, Data Guard 9i/10gR2, SSL, SSO-OID, **Oracle Parallel Server**, SQL*Net
Internet Products:	9iAS, 10gAS, Fusion, Fusion Middleware Oracle Web Server, Java, JSP, J2EE, Portal
Operating Systems:	Sun (2.8, 2.7, 5.6, 5.7, 5.8, 5.9, 10, 11), HP (10.2, 11.0, 11.11), AIX 4/5L(5.2, 5.3.0.2), VMS, Red Hat Linux 7.2, Win 2K Cluster, Linux Cluster, Suse SLES 9, RedHat AS 4, 4.3, 4.4, 4.5, 5.5 RH

Languages:	SQL, PL/SQL, Perl, Korn, SQR, Ada, C, Pascal, Fortran, Algol	
Other:	OracleVM, VMWare, ExaData, ClearCase,Veritas Cluster, RAID, PVCS, Tuxedo	

Consulting Experience

Univ North Iowa	**12.2.6 First Pass upgrade**	**June 2017 – July 2017**
Lozier	**12.2.6 First Pass upgrade**	**May 2017 – June 2017**
Buzzi	**OEM install and configuration, install agents**	**April 2017 – May 2017**
Google	**12.2.5 Upgrade – EBS from 11i, ASCP from 12.1.3**	**Sept 2016 – April 2017**
Dayton Granger	**12.2.6 Upgrade from 12.1.1**	**May 2016 - Dec 2016**
Schneider Electric	**12c DB Performance Tuning Global Data Warehouse**	**Jun 2016 - Aug 2016**
Evraz	**12c DB Upgrade w EBS, migrate to Linux from Solaris**	**Apr 2016 - June 2016**
Oracle Consulting	**12c DB Performance Tuning for OEM**	**Feb 2016 - Mar 2016**
TD AmeriTrade	**R12.2.5 First Pass Upgrade**	**Dec 2015 - Jan 2016**
Mitre	**R12.2.5 First Pass Upgrade - Linux 7.1**	**Aug 2015 - Nov 2016**
Harvard Pilgrim HC	**R12.2.4 Upgrade 6TB DB, Exadata, 12c DB Tuning**	**Mar 2015 - July 2015**
Ames TrueTemper	**MRP/ASCP Performance tuning of Data Collections**	**Aug 2014 - Jan 2014**
BAE Systems	**First Pass Upgrade from 11.5.10.2 to R12.2.3**	**Jun 2014 - July 2014**
Harmon's	**Implement External Web Tier w Reverse Proxy**	**Mar 2014 - July 2014**
US Treasury	**Upgrade Enterprise Manager (OEM to 12c)**	**Jan 2014 - Feb 2014**
Oracle Consulting OCS	**11gR2 RAC Infrastructure Upgrade**	**Sept 2013 – Jan 2014**
	VLDB EBS 20 TB, ExaLogic, Upgrade EBS DB to 11.2.0.3, Upgrade SOA database.	
Oracle Consulting OCS	**Demantra Tuning Specialist - Pepsi Canada**	**Jun 2013 – Sept 2013**

R12.1.3 Upgrades:

ThermoFisher	R12.1.3 Upgrade on Solaris 10, ExaData	Apr 2012 - June 2013
	FIN, MFG, MRP/ASCP/VCP, OPM, Discrete, WMS, Configurator, HR,	
	VMAX, Timefinder, AWR, ASH, Markview	
Buzzi	R12.1.3 PROD Upgrade on Linux 5.5, Markview	Jan 2012 – Mar 2012
	FIN, MFG, OPM, ASCP/VCP, Configurator, AWR, ASH	
Intervarsity	R12.1.3 PROD Upgrade on VMWare	July 2011 – Aug 2011
Sumitomo Mitsui	R12.1.3 PROD Upgrade on ExaData	May 2011 – July 2011
RAND	R12.1.3 PROD Upgrade on Solaris	Apr 2011 – April 2012 (part-time)
UGI	R12.1.3 PROD Upgrade on VMWare, Markview	Sept 2010 - May 2011
Mitre	R12.1.3 PROD Upgrade	Sept 2010
Backcountry.com	Demantra Tuning Specialist	June 2010

Oracle Consulting OCS   Demantra Tuning Specialist   Dec 2009 – March 2011
   Worksheet performance tuning, load tuning and partitioning tables, tuning the SALES_DATA table. Clients included
   Snyders of Hanover, SaraLee, Green Mountain Coffee, Leggett&Platt, Land oLakes, Organic Valley. Configured ORM.

LDS Church   Oracle Performance Tuning Specialist   Dec 2009 – Feb 2010
   Wrote and maintained PL/SQL Bulk Load programs to simulate real data. DB Performance Tuning on RAC, limit use with
   ORM.

Paetec   Mar 2009 – Nov 2009
   Disaster Recovery – 10gR2 Dataguard
   Implement Active DataGuard, mentor employees, document failover procedures. Configure ORM, Performance tuning.

Oracle Instructor   part-time   Jan 2006 – Present
   Release 12 Concepts and Administration, Release 12 Upgrade, Release R12.1.3 Upgrade, Workflow Builder, Business
   Events and Administration. The OSes used for most training hardware are: Oracle Enterprise Linux and Solaris.

USANA   Nov 2008 – Feb 2009
   Oracle R12 Apps DBA
   Upgrade to 12.1.1, Financials, Inventory, HR, Process Manufacturing, ASCP, Demantra, WMS, iProcurement,
   iRecruitment, Performance Tuning Demantra. Configure ORM to limit resource consumption by responsibility.

Los Alamos National Lab   Mar 2008 – Jan 2009
   Oracle Apps DBA – Performance Tuning

Upgrade 11.5.9 to 11.5.10.2 on **AIX – RAC/ASM**, Informatica/OBIEE, Implement **HR/Payroll, OTL** technical lead
Implement OBIEE – DBA Tasks, Implement Failover – Load Balancing for all tiers, Apache, JServ,OC4J, CM and DB
Upgrade OID-SSO, SSL, AS 10.1.2 to 10.1.4.0.1 Design and Implement ORM, Upgrade **RAC** and CRS to 10.2.0.4,
Integrate Grid Control with OAM, Performance tuning-load testing of OTL in RAC environment (10K users)

Metro of St Louis   Mar 2007 – Dec 2007
Primary Oracle Apps DBA
Upgrade 11.5.9 to 11.5.10.2 on Linux RH AS Rel 4.4 RAC-ASM, Upgrade to Release 12 in test & dev environment,
Upgrade DB from single node 10.1.0.4 to 10gR2 – 64 bit on RAC & ASM using DataPump Implement EMC SnapView,
SnapClone and MirrorView, OATM, SSL, Modules – FIN, PO, iProc, Order Mgmt, Projects, iSupplier, OTM, Grants,
MFG, INV, WIP, BOM, SSL – Reverse Proxy, 10gR2 RAC, VMWare, Business Intelligence, Public Sector Financials

USANA   **11.5.10.2**   Oct 2006   – March 2007
Workflow Admin and Development
ASCP, PO, MSC & OPM, Demantra, Workflow modifications, Workflow Admin, SQL Training

Mitre   McLean VA   June 2006   – Oct 2006
Primary Oracle Apps DBA
Upgrade to 10gR2 with 11.5.10.2 on SUN Solaris platform, 2000+ users, Cloning in Shared APPL_TOP environment**,**
Modules – FIN, PO, iProc, PO, Projects**,** Financial Intelligence, DBI, Peoplesoft**,** Workflow**,** Performance Tuning,
Configure ORM, Indexing, Wait Analysis**,** ATG RUP 4, SSL,, DMZ Servers, Security Patches – CPU Oct 2006

Louisville Water   KY   June 2005 – Dec 2005
Primary Oracle Apps DBA
Upgrade 11.5.8 to 11.5.10.2 on SUN Solaris platform, BCV, Timefinder
Upgrade DB from 8.1.7.4 to 9.2.0.6**,** Modules – FIN, PO, iProc, OTL, HR/Payroll, Projects**,** HR Global, HR PF.K, Heavy
OTL Workflow modifications, Public Sector Financials, Peoplesoft, Performance Tuning

BAE Systems, Johnson City NY   Jan 2005 – June 2005
Oracle Apps DBA
Upgrade 11.5.4 to 11.5.10 on SUN Solaris platform, 5000+ users, Upgrade DB from 8.1.7.4 to 9.2.0.5**,** Modules – FIN,
CRM, ASCP, Demand Planning, iSupplier, PO, OM, HR, Payroll**,** RMAN, DataGuard, Shared APPL_TOP, Distributed
AD**,** Multi-Node, Multi-Tier administration and tuning**, configure ORM,** Application Patch installation (**adpatch**) and
Oracle patch installation (**opatch**).

Prolexys, SLC   Oct 2004 – Jan 2005
Primary Apps DBA
Upgrade 11.5.4 to 11.5.10 on SUN Solaris platform**,** Modules-FIN, CRM, iProcurement, iExpense**,** Workflow, 10g SSO-
OID, 10g Discoverer, SSHR

Dresser-Rand, Olean & Painted Post, New York   July 2004 – Oct 2004
Primary Apps DBA
Upgrade 11.5.4 to 11.5.10 on AIX – RS6000 platform, 2500+ users, Modules - FIN, HR/Payroll, ASCP, Demand
Planning, Configurator, 10g SSO-OID, Discoverer, SSHR, Seibel CRM, Kintana

City of Las Vegas   May 2004 – July 2004
Primary Upgrade Apps DBA
Upgrade 11.0.3 to 11.5.9 on Tru64 **,** Modules– FIN, HR/Payroll, Projects, iSupplier**,** Security Architecture, Public Sector
Financials, SSO-OID, Discoverer

Screen Actors Guild, Los Angeles   May 2004 – June 2004
Primary Oracle Apps Upgrade DBA with 9i RAC
Upgrade 11.5.8 to 11.5.9 On SUN platform**,** Modules – FIN, HR, CRM, OTA, SSHR, Tele-Sales, Sun / Solaris, NLS,
Load Balancing Multi-Nodes, Oracle **9iRAC**

Nutraceutical   Jan 2003 – April 2004
Data Architect for custom POS system integrated with 11i INV/PO
Data Modeling, Designer, Interface Definition, Requirements Gathering**,** Modules – INV, PO**,** Interfaces to existing
systems and new custom POS system

Ventana   June 2003 – Jan 2004
Primary Oracle Apps DBA, Project Mgr –11.5.9 Upgrade
Upgrade 11.0.3 to 11.5.9 on SUN/Solaris platform **,** Modules – FIN-MRC, MFG, OM, Service, CRM, iProc,

Configurator, Demand Planning**,** Performance Tuning, Workflow, SUN, Portal

JC Penney   Mar 2003 – June 2003
   Oracle Applications DBA –11.5.8 Re-Implementation
   Upgrade 10.7 to 11.5.8 on SUN platform**,** Module – FIN, Purchasing**,** Performance Tuning, Concurrent Mgr Tuning, Workflow Builder, SSL, SSO, DMZ, RMAN

Dept of Energy   May 2003
   Oracle Applications DBA – Upgrade from 11.5.5 to 11.5.8 with Projects and Financials, Solaris

Zions Bank   July 2002 – Dec 2002
   Oracle Applications DBA -11i Upgrade, Solaris & Veritas, Upgrade 10.7 Char to 11.5.7 Financials – Multi-Org, 9iAS Configuration and Tuning, RMAN, Discoverer

NANA   August 2000 – July 2002
   Primary Oracle Apps DBA Upgrade 11.0 to 11i FIN, HR/Payroll, iStore, Extensive Performance Tuning of Payroll

net-mercial.com Oracle 8i DBA, **OPS**, Rational Rose, RS6000 AIX   Feb 2000 – Aug 2000

   Zions Bank   Oracle Applications 10.7 / Financial Analyzer   August 1999 – Feb 2000
   Apps DBA, Financial Data Warehouse. Data Warehouse Builder, ETL – Design and implementation

Ventana   Oracle Applications Implementation 10.7, 11   August 1998 –Aug 1999
   Apps DBA, NT4 -installed 10.7 NCA, 11.0.1, upgraded to 11.0.3, with Taxware. Mentored client employees.

USANA   Oracle 8i Data Warehouse   Jan 1999 – Aug 1999

VA Dept of Education   Oracle Applications 10.7 to 11.0 Upgrade   August 1998 – Dec 1998

USANA   Oracle Backup and Recovery/Disaster Recovery   July 1998 – Aug 1998

Ventana   Oracle Applications Implementation 10.7   April 1998 – June 1998
   Technical DBA/Apps DBA, installed 10.7 NCA, backups, tuned applications & concurrent managers.

Franklin Covey Oracle Applications Implementation 10.7 NCA   Sept 1997 – Mar 1998
   Technical DBA/Apps DBA – 10.7, **OPS**, DEC-UNIX. Financials and Manufacturing. Designer 2000.

Iomega / OCS   Oracle Applications Implementation 10.6   June 1997 – Sept 1997
   Oracle Apps DBA – 10.6, 10.7, 11, HP-UX - MC ServiceGuard, EMC. Multi-Org, FIN & MFG.

AirTouch / OCS   Flat file conversion to Oracle 7.3 – OPS   March 1997 – June 1997
   Project Manager/DBA - Tuned the application and database for OPS. Installed and configured **OPS**.

WhiteCo   Inventory, Scheduling, Lease, Payable Systems   Dec 1995 – March 1997
   Project Manager/DBA/Architect – Designer 2000, Developer 2000, Oracle 7.1-7.3 and **OPS**.

Morton   Oracle7 Production Conversion RS6000 AIX   June 1996 to July 1996

Novell   Certification/Registration System   June 1995 - December 1995
   Object Modeler/Team Lead. Developed a Powerbuilder-Tuxedo three-tiered application, SQL Server DBA.

HP   Vantive Help Desk System   June 1995
   Vantive. Installed Vantive on HP9000, provided Sybase DBA support, wrote 11 SQR reports.

Morton   Discrete Manufacturing - JIT / Kanban   March 1995 to June 1995
   OOA-OOD / ORACLE7 DBA / Tuxedo / Powerbuilder. using the OMT methodology and Use Cases.

Sunquest   Hospital Order Management System   Dec 1994 - March 1995
   SYBASE System 10 DBA / SQR Report Developer. Sybase DBA support, wrote 25 SQR reports.

Household Finance   Credit Approval System   June 1994
   Database Design / SYBASE DBA / ORACLE7 DBA. Oracle7 DBA PeopleSoft. Created SQR reports.

USWest	Telecomm Enterprise Re-Engineering	March 1994 – Dec 1994

ORACLE7 DBA/Object Admin, Sybase (4.9 and System 10) DBA support for StP, Informix and Erwin.

Aptus	Hazardous Waste Management System / Ingres	October - November 1993
First Health	Health Care Claims Data Warehouse Informix	July 1993 - March 1994
Thiokol	Shop Floor Management System	January 1992 - June 1993

Ingres DBA / Lead programmer - Design and development of SFMS, using Gane-Sarson Methodology.

Ministry of Health	Brazilian Social Security System Ingres DBA	July 1991 - January 1992

Employment:

Salt Lake Community College	March 1990 - June 1991

Adjunct Professor - Physics and Computer Science

University of Utah	Ingres DBA / SUN SA.	1989 -1990

Rockwell International - Collins Defense Communications   1986 - 1989
Software Engineer - RSA development using Ada, Pascal, embedded military message processing, VLF.

Standard Oil of Ohio   1983 - 1986
Research Geophysicist - Developed DSP and finite difference algorithms using Fortran and C on VAX/VMS and Cray, to simulate 3D wave propagation. Developed forward seismic modeling algorithms.

Education:

M.S. Physics	1983	University of Utah. Thesis in digital signal processing.
B.S. Geology	1983	University of Utah
B.S. Geophysics	1983	University of Utah
B.S. Physics	1979	University of Utah. Minor in Computer Science.