**Mark A. Nelson**

**5760 East Floyd Avenue**

**Denver, CO 80222-7516**

**303-901-9912**

**mnelson@nyx.net**

**SUMMARY:**

• A Software Engineer with 25 years of experience;

 familiar with the entire software development

 lifecycle.

• Web development skills: COLDFUSION,

 FLEX/ACTIONSCRIPT, HTML, CSS, JAVASCRIPT, XML.

• J2SE development experience in a UNIX environment.

• SQL relational database experience: MICROSOFT SQL

 SERVER, ORACLE, SYBASE, INFORMIX.

• Strong C/C++ development experience in a UNIX

 environment.

• Networking skills: TCP/IP and MQSERIES.

• Experience with WINDOWS XP PRO and X WINDOWS.

• Effective team player and project leader.

**SOFTWARE SKILLS:**

WINDOWS XP PRO, COLDFUSION, FLEX/ACTIONSCRIPT,

J2SE (JAVA), HTML, CSS, JAVASCRIPT, XML, AJAX,

C/C++, UNIX/LINUX (KSH/KSH SCRIPTS, MAKE, RCS,

AWK, SED, M4, LEX/YACC, VIM, X WINDOWS), ECLIPSE,

MICROSOFT VISUAL STUDIO, MACROMEDIA COLDFUSION

STUDIO, RDBMS/SQL (MICROSOFT SQL SERVER, ORACLE,

SYBASE, INFORMIX), TCP/IP, HTTP, SKYPE, ADOBE CONNECT

ENTERPRISE, CUTEFTP, MICROSOFT OFFICE, FRAMEMAKER,

ADOBE READER, SNAGIT, STARTEAM, VISUAL SOURCESAFE,

MICROSOFT OUTLOOK, BEYOND COMPARE, WINZIP, VISTAPLUS,

MQSERIES, PERL, PYTHON, TCL/TK, RUP (UML, USE CASES).

**HARDWARE:**

HP 9000, SUN SPARCSTATION, IBM PC, MACINTOSH.

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**EXPERIENCE CONTINUED:**

**EDUCATION:**

Bachelor of Science in Mineral Engineering

Mathematics, Colorado School of Mines, 1975.

**EXPERIENCE:**

**Consulting Software Engineer, Trilemetry**

**Incorporated.**

July 2007 to August 2008.

**Environment:** WINDOWS XP PRO, COLDFUSION,

FLEX/ACTIONSCRIPT, J2EE, HTML, CSS, JAVASCRIPT, XML,

AJAX, ECLIPSE, MICROSOFT VISUAL STUDIO, MACROMEDIA

COLDFUSION STUDIO, MICROSOFT SQL SERVER, MICROSOFT

OFFICE, FRAMEMAKER, ADOBE READER, SNAGIT, SKYPE,

ADOBE CONNECT ENTERPRISE, CUTEFTP, STARTEAM, BEYOND

COMPARE, WINZIP.

• Reviewed, revised and wrote technical training

 materials.

• Debugged, revised and wrote Internet business

 applications.

**Technical Staff, Analysts International Corporation /**

**Qwest Dex.**

January 1997 to April 2001.

Provided contract programming services to Qwest Dex

through Analysts International.

**Environment:** C/C++, J2SE, UNIX (HP-UX), RDBMS/SQL

(SYBASE), MQSERIES, TCP/IP, WINDOWS NT (VISUAL

SOURCESAFE, WORD, EXCEL, OUTLOOK, VISTAPLUS), RUP,

HTML, XML, POSTSCRIPT.

• Designed, coded and documented application software.

• Performed production support and software testing

 tasks.

• Developed Message Group and Message Send APIs for

 use with MQSERIES.

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**EXPERIENCE CONTINUED:**

• Supervised the development of the Notifier Print

 System as part of the Quantum project. The Quantum

 project was the rewrite of Qwest Dex's phone book

 manufacturing system due to Y2K considerations.

 The Notifier Print System deals with the sending and

 receiving of messages (via MQSERIES) between groups

 involved in the phone book manufacturing process.

• Participated in the development of the Order

 Transporter System as part of the Sales Link project.

 The Sales Link project dealt with the process by which

 sales personnel in the field enter sales information

 (orders) into the phone book manufacturing system. The

 Order Transporter System is the subsystem within

 Sales Link that routes orders to other subsystems

 and groups based upon an order's type and status.

**Software Engineer, U S WEST Communications.**

August 1994 to December 1996.

**Environment:** C/C++, UNIX, RDBMS/SQL (ORACLE, PL/SQL),

VISION\* (GMLP, GMLI), FRAMEMAKER, RUP (UML, USE

CASES).

• Generated requirement documents via the writing of

 USE CASES.

• Designed, coded and documented application software.

• Supervised programming projects.

• Performed production support and software testing

 tasks.

• Supervised the development of the OSP-FM/LFACS

 Interface. The OutSide Plant - Facility Management

 system maps and manages telephone outside plant

 facilities. The Loop Facility Assignment Control

 System deals with the assignment of telephone cable

 loops (i.e. pairs) within a telephone exchange.

 The interface between the two systems allows retrieval

 of information from LFACS by OSP-FM and automatic

 update of LFACS by OSP-FM.

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**EXPERIENCE CONTINUED:**

• Designed and coded GML macros for the OSP-FM

 application.

**Consultant, Intelligraphics Incorporated.**

November 1993 to January 1994.

Provided consulting and contract programming services

to Intelligraphics.

**Environment:** C, UNIX, RDBMS/SQL (ORACLE), INTERGRAPH,

VISION\* (GINA).

• Developed an INTERGRAPH to VISION\* graphics/database

 translator.

**Senior Applications Analyst, Geonex Corporation.**

April 1993 to November 1993.

**Environment:** C, UNIX, RDBMS/SQL (ORACLE), X WINDOWS,

INTERGRAPH (MICROSTATION, USER COMMANDS, INC).

• Designed and coded application software.

• Provided software system design services.

• Developed a graphics capture environment and wrote

 QA/QC routines for an electric utility facility

 mapping project.

**Consultant, Visitech Consulting Incorporated.**

August 1992 to March 1993.

Provided consulting and contract programming services

to Visitech.

**Environment:** C, UNIX, RDBMS/SQL (INFORMIX, EMBEDDED

SQL), X WINDOWS, INTERGRAPH (MICROSTATION, MGE,

MICROCSL, RIS, INC), DXF.

• Developed an INTERGRAPH MGE (MICROSTATION Geographic

 Environment) to SYNERCOM graphics/database translator.

**Senior Applications Analyst, Geonex Corporation.**

April 1990 to May 1992.

Member of the corporate R&D staff.

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**EXPERIENCE CONTINUED:**

**Environment:** C, FORTRAN, UNIX, VAX/VMS, RDBMS/SQL

(ORACLE), X WINDOWS, INTERGRAPH (IGDS/DMRS, USER

COMMANDS, FRAMME, INC), GEOVISION (GINA), MACRO-11.

• Supervised programming projects.

• Provided consulting support to other offices.

• Provided support for existing in-house projects.

• Designed software systems for facility mapping

 conversion.

• Designed and coded application software.

• Designed and supervised the development of a

 generalized INTERGRAPH to GEOVISION facility mapping

 conversion system.

• Designed and developed an INTERGRAPH to GEOVISION

 graphics/database translator.

• Managed a multi-subsidiary telephone facility

 mapping conversion project startup.

**Principal Software Engineer, GeoTechnology**

**International.**

February 1981 to March 1990.

**Environment:** FORTRAN, VAX/VMS, DG AOS/VS, INTERGRAPH

(IGDS/DMRS, USER COMMANDS, SIF, MICROSTATION, FRAMME),

MACRO-11, MASM-32.

• Supervised programming projects.

• Provided support for existing in-house projects.

• Assisted in the preparation of client proposals.

• Performed computer system management duties.

• Designed and coded application software.

• Developed software tools.

• Developed a graphics and database translator used

 for the interchange of data between the in-house

 developed graphics system and client INTERGRAPH

 systems.

• Designed and supervised the development of a

 conversion/translation system for a railroad mapping

 project.

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**EXPERIENCE CONTINUED:**

• Designed and developed a generalized

 INTERGRAPH-based facilities conversion system.

 The system featured an off-line attribute entry

 subsystem and a MICROSTATION digitizing subsystem.

• Designed and supervised the development of

 connectivity generation systems (feeders) for four

 telephone outside plant conversion projects.

• Provided technical support for a FRAMME-based

 fiber-optic route conversion project.

**Programming Coordinator - Engineering, Tri-State**

**Generation and Transmission Association.**

December 1978 to February 1981.

**Environment:** FORTRAN, BASIC, PDP-11 RSTS/E, FINAR.

• Designed and coded application software.

• Planned, organized, and monitored programming

 projects.

• Supervised program maintenance.

• Supervised the development of a computerized

 Corporate Long Range Planning System. The system

 was used for projecting electric generation and

 transmission requirements based upon Corporate Power

 Requirements Study input data.

• Developed a Delivery Point Projection System used

 for projecting electric substation loads.

• Developed the Remote Computer Interactive Service

 (Remote). Remote was used for accessing off-site

 computers through the corporate mainframe machine.

**Supervisor of Data Processing, Morgan County Rural**

**Electric Association.**

May 1976 to December 1978.

**Environment:** BASIC, PDP-11 RSTS/E.

• Performed data processing department planning.

• Designed and coded application software.

• Performed computer system management duties.

• Performed computer system operation duties.

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**EXPERIENCE CONTINUED:**

• Developed electric utility billing, payroll, capital

 credit, and inventory control software systems.

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