**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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