MATTHEW MCDONALD

7747 West Brook Drive · 303-522-4418
Matthewmcdonald1963@gmail.com - LinkedIn Profile: https://www.linkedin.com/in/matthew-mcdonald-611ba311/

PROFESSIONAL SKILLS

- Software development in C#, (withinASP.NET 4.0), C++, C, Assembler, UNIX scripts, ORACLE/SQL, PLC and BASIC plus 2
- 10+ years of experience developing and testing software for telephony and railroad applications
- Installed and maintained VPN systems and computer workstations
- Wrote technical papers and assisted technical writers in creating the final user documentation
- Skilled at team leadership roles in quality improvement programs
- Thrived as a team player

EXPERIENCE

2000 – 2018
TEST MANAGER, INTELLIGENT RAILROAD SYSTEMS, INC.

- Designed, coded, tested, and debugged C++ code for railroad products
- Researched, purchased, and administered computer workstations for the entire staff
- Researched, purchased, deployed, and supported VPN for entire company
- Administered and maintained company server, containing all production code

1996 – 2000
MEMBER OF TECHNICAL STAFF, EVOLVING SYSTEMS, INC.

- Designed, coded, tested, deployed, and supported code for telecommunications products
- Worked with Client and Systems Architect to capture requirements, generate detailed interface specifications, and write design documents

1993 – 1996
SOFTWARE ENGINEER, THE CARNEGIE GROUP, INC.

- Designed, coded, tested, and debugged an object-oriented C++ software product which reduced a multi-day telephone assignment process down to a multi-second process
- Provided shifts for 24 hour 7 days a week software support for a $2 million telecommunication project by carrying the team cell phone

1992 – 1993
SOFTWARE TESTER, AUTO-TROL

- Tested CAD software products on various platforms

1988 – 1992
MEMBER OF TECHNICAL STAFF, NEC AMERICA, INC.

- Designed, coded, tested, and debugged telephone switch software features
- Served as Team Leader for Software Quality Circles
- Designed, wrote, and tested ORACLE test case tracking tool
- Instrumental in training/mentoring new employees

1985 – 1987
ASSOCIATE COMPUTER SYSTEMS DESIGNER, MARTIN MARIETTA DATA SYSTEMS

- Wrote algorithms and programs for class scheduling and student tracking in BASIC Plus 2
- Wrote BASIC programs on a PDP 11/84 under RSTS/E
- Ran government produced tests on Vax 11/780
- Edited and reviewed final project documentation
- Disassembled, cataloged, and reassembled all computer components for a Field Services Main Office move

EDUCATION

TRAINING CERTIFICATES, HANDS ON TECHNOLOGY TRANSFER, INC., 2012

- ASP .NET 4.0 Programming using C#
- Advanced ASP .NET 4.0 Application Development using C# and AJAX

MASTER OF COMPUTER INFORMATION SYSTEMS, UNIVERSITY OF DENVER, 1997

BACHELOR OF SCIENCE, COMPUTER SCIENCE, UNIVERSITY OF COLORADO, 1987

PERSONAL

- Provided 12/7 care for chronically ill spouse with Multiple Sclerosis until nursing home entry
- Oversaw and fulfilled all basic services of addressing nutritional needs, hygiene and daily tasks
- Maintained finances and legal paperwork
- Administered medications under the direction of doctors/nurses
- Handled emergency responses and patient transport for appointments
- Owner and Operator of Elk Creek Software Consulting, LLC, 2012-2018
- Volunteer firefighter at Elk Creek Fire Department, 1983 to 1986