

# Mark D. Miller

---

## Skills

### Technical

Well versed in various programming languages including C#, Java, C, C++ and Visual Basic. Also experienced with XHTML, XAML, HTML, CSS, XML and SQL.

Experienced with IDE software including Visual Studio versions from Visual Basic/Visual C++ v. 2.0 to Visual Studio 2012. Also experienced with Eclipse, Mono and PIC assembly code interfaces.

Database: Btrieve/Pervasive, Oracle, MS SQL, MySQL, FoxPro and Access.

Business software experience with Microsoft Office, Microsoft Project, Microsoft Small Business Financials, CounterPoint, Macola, Great Plains, IBM Rational Software Architect, Crystal Reports and Visio.

CAD software: OrCAD, TurboCAD and Circuit Maker.

3D Graphics software: Autodesk Softimage Mod Tool, DAZ Studio, Poser, Bryce, Blender, NVIDIA FX Composer and Carrara.

Operating systems: CP/M, MS-DOS, Commodore, Apple, Windows 3.1 – 7, Windows Server and Linux.

Audio software: ProTools, Cubase, Tascam SX-1, QuickScore Elite, Audacity, Magix, Linux Multi Media, Melodyne, etc.

Analog and digital circuit design

Prototype construction

PCB layout

Amplifier repairs and customizations

Recording studio equipment repair and maintenance

## Supervisory

Has owned or managed businesses since 1980.

Responsible for hiring/firing, giving direction, motivation and discipline

Employee evaluations

Conflict resolution

## **Communication**

Client interaction for custom software projects including definition and specifications

Musical Instrument sales

Wholesale purchase negotiations

Contract negotiations

Trained clients on custom software

Music teacher since 1978

Audio Recording instructor

## **Business**

Bookkeeping/tax preparation

Advertising/Promotional copy

Equipment Purchasing

Inventory

Fundraising campaigns

## **Accomplishments**

Sample list of Computer programs written

1980 – 1990

Text adventure for CP/M

Assembler/Disassembler for 6510 microprocessor

Asteroids clone for Commodore 64

Music store rentals/sales software

Music lesson scheduling software

MIDI sequencer

DOS Recording Studio Design

DOS menus

1990 – 2000

Windows dice, card and adventure games

PIC assembly code for self-tuning guitar system

Windows serial port motion control

Custom Windows service management software interface for CounterPoint, Macola, Great Plains and Small Business Financials accounting software packages

2000 – 2010

Custom Windows business software interfaces with CounterPoint for businesses including a recycling center, online store, warehouse and trucking industry

Windows recording studio POS, Scheduling and Accounting Software sold as swSQL

Windows Music/Arts School Registration, Development, Events, Fund Raising and Accounting Software sold as Concerto and ConcertoII

XNA Game Studio – Adventure, fps and space games, including code, graphics and music. WYSIWYG editor for XNA HUUD screens

Windows Checking Account software

Windows Recording Studio Design

Web site design and implementation including bsassy.com, cvsmusic.org, swsql.com and mandmrecordingstudio.com

2010 – Present

Windows phone – Telephone contacts, text adventure and space shooter.

Windows – Space adventure calculates actual planet positions based upon JPL equations, relative ship time, gravitational drift/slingshot, hull temperature and radiation.

Windows Musical Set Maker – creates sets based on key, tempo, length and style.

Electronics

Patent no. 5,323,680 self-tuning guitar system

Patent no. 5,159,312 trailer safety hitch radio alert

Self-tuning pedal steel guitar

Self-tuning violin

Two recording studio designs and wiring

Television frame rate timer

Numerous light shows and sound system designs

Client computer customization, assembly and repair

Computer network installation and maintenance

Alarm system design/installation

## Music

Hundreds of musical compositions in all styles, the first at age 4. Scores written for video games, instrumentals, bands, solo performers, chamber groups, jazz, rock, country and bluegrass.

12 original CDs and 4 cassettes produced.

Professional musical performances since 1976. Warm ups for Edgar Winter and Atlanta Rhythm Section.

Music instructor since 1978.

Plays classical guitar, acoustic and electric guitars, drums, keyboards, trumpet, ukulele and vocals.

Notable clients include Disney and Cory Evan Rotz, Washington Opera

## Employment

### Self Employed

Owner, M&M Recording Studio – 2003 – Present

Vice President, Computune, Inc. 1990 – 1994

Contracted Faculty and IT consultant, Cumberland Valley School of Music 1990 – Present

Owner, Take Note Music, Reel Trax Recording Studio 1988 – 1990

Limited Partner, Miller Properties, LLC 1987 - Present

Owner, Guitars A Teaching Studio 1983 – 1988

Freelance Computer Programmer 1982 – Present

Self Employed Musician 1976 – Present

#### Employed

Office Assistant, Cumberland Valley School of Music 2000 – 2003

Computer Programmer, VH Consultants 1998 – 2000

Manager, Valley Music Mart 1980 – 1983

Instrument Repair Technician, Guitar Instructor, Sales Person, The String Repair Shoppe  
1976 – 1980

Experimental Surgery Technician, National Institute of Health 1974 – 1976

#### Education

Bachelor of Science, Computer Information Systems – Devry University  
*summa cum laude* - GPA 4.0

R.I.A. 32 Track Recording Engineering Certificate

#### Other

Seagate Crystal Report Certification

I.C.S. Electronics Technology Studies

Music Theory and Composition with C. Randall Williams

Classical Guitar study with Chris Anderson