



# *con brio* software



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**Con Brio Software provides on-time, reliable solutions and support for projects requiring solid experience in software development as well as thorough systems knowledge.** Con Brio also brings a wide background in many different areas of industry, so assignments are completed with an eye toward your specific business needs and not merely from a software development point of view. With Con Brio, you can be sure that your short and long-term software and systems projects will be done fast and done right.

**Con Brio Software offers solutions and support in the following areas:**

- Application design, coding & maintenance (web, desktop, server, mobile)
- Reporting • Data extraction • Data warehousing
- Database development/management
- Web processing (automated web input, screenscraping, etc.)

**Con Brio Software can work on site or remotely.** With a network that includes DSL, remote desktop access, various IDEs, DBMS, versioning and other software tools, and HTTP, FTP, & Tomcat servers and PHP engine, Con Brio Software is well-equipped to serve you remotely from its base in Vermont.

Please look over the following project history to see if you can use Con Brio Software services for any of your software and/or systems projects. Roland Galibert will be happy to answer any questions and can be reached by e-mail at [rg@marley32.com](mailto:rg@marley32.com), or by phone (802)439-3019. You can also visit <http://www.conbriosoftware.com> for current company information.

## SOFTWARE DEVELOPMENT Programming Languages, Tools, Target Platforms

<b>Programming Languages</b>	PHP · JSF · JavaScript · HTML · CSS Java · C · Visual Basic · SQL (various versions) · RPG ILE Familiarity with C++, mobile application development
<b>Command/Script Languages</b>	VB Script, DOS/Windows command language System i command language Linux
<b>IDEs</b>	NetBeans WebSphere Development Studio Familiarity with Visual Studio
<b>Other Software Tools</b>	FileZilla (client, server) Mozilla FireFox web developer tools WireShark network analyzer Crystal Reports/Crystal Enterprise ISeries Navigator Versioning systems (System i; familiar with Subversion)
<b>Platforms – Operating Systems</b>	Windows – 95, XP, Vista, 7, Server 2003 System i Linux, UNIX
<b>Platforms – DBMS</b>	MySQL · DB2 · Access · Firebird
<b>Platforms – Other</b>	Java Server Faces · JetSpeed web portal

## INFRASTRUCTURE, HARDWARE Installation & Configuration

*(Except where noted, experience limited to installation/configuration for home business purposes for individual use, such as test environments)*

<b>Operating Systems</b>	Windows (95, XP, Vista, 7) Linux (Red Hat 8.0, OpenSUSE 10.3)
<b>Servers</b>	Apache HTTP server · PHP engine · FileZilla FTP server Tomcat server Crystal Enterprise Express ( <b>actual work experience</b> ) IOpus Internet Macros ( <b>actual work experience</b> ) DBs – MySQL, Access, MS SQL Server, other
<b>Other</b>	Set up home business network with Linksys Wireless G WRT54G router. Built home business tower/server from scratch.

## EDUCATION / CO-OP EXPERIENCE

Timken Aerospace, Lebanon, NH; January 2004 to present.

- Courses on SAP.

IBM MVS/XA Systems Development, Poughkeepsie, NY; Summer 1987.

Summer co-op position as systems programmer.

- Created menu-driven system using ISPF to facilitate input of MVS SLIP command parameters.

Rensselaer Polytechnic Institute, Troy, NY; September 1986 to December 1987.

Completed 21 credits toward master's degree in computer science.

- Projects written in C included an assembler, LISP interpreter and extendible hashing database.
- Courses in systems programming, operating systems theory, DB management, software testing.
- Taught C class & answered C/UNIX questions as help desk monitor.

Williams College, Williamstown, MA; September 1980 to June 1984.

BA in English, June 1984; minored in computer science.

- Two years of German; music courses in theory, keyboard history & humor in music.
- Supervised over 30 student workers in dining hall.

Horace Greeley High School, Chappaqua, NY; September 1976 to June 1980.

Graduated June 1980.

- Six years of French (starting in middle school).
- Also received numerous AATF awards, took French AP, and tutored French.
- Studied one year of Latin.

## CONFERENCES/LECTURES/WEBINARS

<b>Date</b>	<b>Association</b>	<b>Format</b>	<b>Topic</b>
30 March 2011	Zend	Webinar	Zend Framework 2 Patterns
16 March 2011	Embarcadero	Webinar	Developing Applications for the Cloud using RAD Studio XE
2 March 2011	Embarcadero	Webinar	DataSnap XE in the Real World
9 February 2011	Embarcadero	Webinar	Developing Application Services using PHP Servers and Android Phone Clients
5 March 2009	DLSLUG Linux user group	Lecture	Improving Linux Disk Performance
2 February 2009	CentraLUG Linux user group	Lecture	Open source business models talk
4 December 2008	DLSLUG	Lecture	PyCUDA and GPU Programming
6 November 2008	DLSLUG	Lecture	Ubuntu server
9 October 2008	MONADLUG Linux user group	Lecture	MySQL Replication
3 October 2006	Vermont Midrange User Group	Conference	iSeries conference
April 2006	Northeast User Groups Conference	Conference	iSeries conference

## **RELATED EXPERIENCE**

Software Developer, Con Brio Software/Marley .32, Bradford, VT  
November 2001 to present (*full-time since September 2007*).

Project Description: PHP/JavaScript/MySQL automated web input/screenscraping application for managing advertiser keyword bids at a .aspx-based pop-up advertising distribution company (<http://www.leadimpact.com>).

Platform: CentOS 5.4 x86\_64 standard, Apache 2.2.11, MySQL Community 5.0.89, PHP 5.2.0 (web host setup)

Tools: NetBeans 7.1.1

Programming languages: PHP, MySQL, Javascript, HTML/CSS

Completion Date: October 2012

End client: Chris Jenkins (through vworker.com freelancer project website)

Usual application cycle:

- Select leadimpact user ID for processing from drop-down list (client has multiple leadimpact user IDs)
- Download current campaign/landing page/keyword data (~20+ K records, data does not need to persist client-side and is automatically deleted after session)
- Calculate command suggestions and related values according to client-specific keyword bid optimization system (series of MySQL calculation queries)
- Display data
- Execute commands such as bid updates (application allows for mass command execution over multiple keywords)
- Select new user or logout

Additional Details:

- Session-based implementation allowing for simultaneous application use (client has multiple employees)
- PHP functionality implemented:
  - Object-oriented/MVC design
  - cURL library (GETs, POSTs, cookie handling)
  - PDO class (queries to create application database, tables, CRUD record functions, prepared queries etc.)
  - Pattern matching/regular expressions (preg\_match(), preg\_match\_all())
  - PHP functions to write JavaScript
  - Authentication (login/logout, are any users currently authenticated, etc.)
  - Page access functions (link to next data page, etc.)
  - Data page functions (scrape data, process link to next data page)
  - Special functions to handle .aspx peculiarities – Page content contains hidden fields required in subsequent HTTP requests · Hidden fields exist in different formats and different HTTP response parts · Content sometimes returned as page redirection response so must be parsed and new HTTP request sent with given parameters
- MySQL functionality implemented:
  - Indexed tables based on session ID, date
  - Series of optimization calculation queries (temp tables)
- Javascript functionality implemented:
  - Expand/collapse data records (based on campaign and/or landing page)
  - Select all records with given field value
  - Sort multi-field table by column (ascending/descending)
  - Write cookies (time of last download)
  - Display field text color according to given status

Project Description: Upgraded web application test environment (Apache 2.4, PHP 5.4, MySQL Server 5.5)

Platform: Windows 7 Home Premium

Completion Date: May 2012

End client: Con Brio Software (self)

Project Description: Designed/coded/tested PHP/MySQL software project demo access system.

Platform: CentOS 5.4 x86\_64 standard, Apache 2.2.11, MySQL Community 5.0.89, PHP 5.2.0 (web host setup)

Tools: NetBeans 6.9

Programming languages: PHP/PEAR, HTML, CSS, MySQL

Completion Date: August 2010

End client: Con Brio Software (self)

Additional Details:

- Web system controls user access to software project demos (including PHP web applications, application downloads such as JARs and zip files, and links to off-site non-PHP web applications)
- Authenticated users have access to demos to which they are authorized as well as public demos, non-authenticated users have access to public demos only.
- Downloadable files (e.g. JARs, application zip files, straight HTML web pages, etc.) are stored in a secure folder in a corresponding demo ID subfolder, and downloads are authorized and controlled through PHP functions.
- Demo PHP web applications are made secure by addition of code snippet; an unauthorized user attempting to access the demo application is returned to the main demo index page.
- Links to non-PHP web applications located off-site (e.g. JSF applications) are also made secure.
- Demo index page summarizes and displays links to all project demos authorized for user.
- Main PHP class includes functionality to generate HTML code for private/public demo lists, to generate HTML code for list of downloadable files for a specific demo, to download given file (using PEAR HTTP\_Download), and to print warning messages for non-authorized user.
- Demo system DB class includes functionality to query demo system tables and access result sets to get current record fields or move to next record (using PEAR DB class).
- Wrote HTML, CSS style classes for demo system pages.

Project Description: Designed/coded/tested PHP/MySQL website user authentication system.

Platform: CentOS 5.4 x86\_64 standard, Apache 2.2.11, MySQL Community 5.0.89, PHP 5.2.0 (web host setup)

Tools: NetBeans 6.9

Programming languages: PHP/PEAR, HTML, CSS; MySQL

Completion Date: August 2010

End client: Con Brio Software, Pyxis Web Processing (self)

Additional Details:

- Main class is PEAR Auth wrapper class; functionality includes methods to log in, log out, print login status, get name of currently authenticated user, print login and logout page anchor HTML code, print warning if unauthenticated user attempts to log out.
- Login form class – functionality includes methods to print login form HTML code, track number of login attempts, print messages if user login attempt is unsuccessful or if user exceeds number of login attempts or if user who is already authenticated tries to log in again.
- Navigation class – functionality includes methods to get/set last non-administrative website page visited (defaults to home page) and constant attributes of all site web page URLs for use by other classes.

- DB classes – functionality includes methods to create static read-only and CRUD DB connections, print related DSNs, and query authentication tables (based on PEAR DB class)
- PEAR classes used – Auth, DB
- MySQL tables created: auth (user name and password, per PEAR Auth class), users (userID, user name, user e-mail address)
- Wrote HTML, CSS style classes for login, logout pages and status/warning messages.
- Installed test PHP processor on laptop (Apache 2.2.11, MySQL Community Server 5.1 (already installed), PHP 5.3.2 engine on Windows XP Professional); installed various PEAR packages on web host system using web host control panel.

**Project Description:** Installed Tomcat server & PHP processor on home business server.

**Platform:** Windows XP

**Completion Date:** March 2010

**End client:** Con Brio Software (self)

**Project Description:** Design/coding of Con Brio website at <http://www.conbriosoftware.com>.

**Tools:** NetBeans IDE 6.1, MS Publisher, IE 8, Firefox 3.0.16

**Programming languages:** XHTML, HTML, CSS

**Completion Date:** December 2009

**End client:** Con Brio Software (self)

**Project Description:** Design/coding of Pyxis Web Processing website at <http://www.pyxiswp.com>.

**Tools:** NetBeans IDE 6.1, MS Publisher, IE 8, Firefox 3.0.16

**Programming languages:** XHTML, HTML, CSS

**Completion Date:** December 2009

**End client:** Pyxis Web Processing (self)

**Project Description:** Design/coding/testing of general Java classes for creation of “bots” and other web processing software.

**Platform:** Windows XP, Java SE 1.6.0.\_17

**Tools:** NetBeans IDE 6.1, JDK 1.6.0.\_17

**Programming languages:** Java

**Completion Date:** August 2009

**End client:** Pyxis Web Processing (self)

**Additional Details:**

- Packages include classes to send form data (through GET, POST and multi-part POST), parse and extract data from HTML streams, process session and cookie parameters, and save remote files (web pages, images, etc.)
- Classes based on java.io, java.net., java.util

**Project Description:** Installed Apache HTTP server, FileZilla FTP server on home business server.

**Platform:** Windows XP

**Completion Date:** March 2009

**End client:** Marley .32

**Project Description:** Installed MySQL Community Server 5.1 & tools (Administrator, Workbench, etc.), and Collabnet Subversion.

**Platform:** Windows XP

**Completion Date:** February 2009

**End client:** Marley .32

**Project Description:** Updated company website content.

**Tools:** Notepad, Internet Explorer, Mozilla Firefox

Programming languages: HTML  
Completion Date: October 2008  
End client: Marley .32

Project Description: Installed/configured wireless home business network  
Platform: Windows XP, Linux, Linksys Wireless G router  
Completion Date: September 2008  
End client: Marley .32

Project Description: Installed/configured software on new laptop, including Windows XP Professional, SUSE Linux, MS Office, MS/Sun IDEs.  
Platform: Windows XP Professional, SUSE Linux, ASUS Intel Core Duo laptop.  
Completion Date: September 2008  
End client: Marley .32

Project Description: Created demo website for New England Translators Association (at [http://www.conbriosoftware.com/demos/public/000000\\_neta\\_website/](http://www.conbriosoftware.com/demos/public/000000_neta_website/))  
Tools: IBM WebSphere Development Studio, Notepad, Internet Explorer, Mozilla Firefox  
Programming languages: JavaScript, DOM, HTML  
Completion Date: July 2007  
End client: New England Translators Association

Project Description: Created demo MIDlet for card game using TRIZ problem-solving methodology.  
Platform: Windows, Motorola phone environment  
Tools: Sun Java Wireless Toolkit, IBM WebSphere Development Studio, Motorola Phone Tools  
Programming languages: Java  
Completion Date: February 2007  
End client: Hape Etzold

Project Description: Created company website.  
Tools: MS Publisher, Notepad, Internet Explorer  
Programming languages: HTML  
Completion Date: April 2006  
End client: Marley .32

Project Description: Created demo/proposal for boarding school to merge Access admissions database tables into browser-based Lotus Notes system.  
Platform: Windows 98  
Tools: Lotus Notes, Access  
Programming languages: Visual Basic, Lotus Notes  
Completion Date: March 2002  
End client: Putney School

Project Description: Built personal computer & installed software on same.  
Platform: Windows 95 on Transcend Intel Pentium processor motherboard  
Completion Date: June 2001  
End client: Marley .32

Programmer/Analyst, Timken Aerospace (subsidiary of the Timken Company), Lebanon, NH.  
January 2004 to present.  
*TA manufactures precision bearings for the aerospace industry.*

Project Description: Developed Java Server Faces web application allowing account reps to measure customer service quality by inputting incidents over several defined customer service quality KPIs.

Platform: WebSphere application server/JSF over System i, DB2

Tools: WebSphere Development Studio, Subversion, ISeries Navigator

Programming languages: Java, HTML

Additional Details:

- Programmed web pages for record creation, update and deletion; field content is input by drop-down menus, text fields and text boxes.
- Implemented JDBC connection to two DB2 AS/400 files with unique keys (one for KPI tracking and one for customer master) for record creation/update/deletion. KPI tracking file keyed by user ID and timestamp of record creation.
- Created above tables using SQL function in ISeries Navigator, including journaling.
- Application authenticates to Windows Active Directory group.
- Used WebSphere web art designer and animated gif creation tools to create template for about 10 different pages, including header with Timken logo, footer, and navigation bar with button icons.
- Use Subversion for application revision maintenance.

Project Description: Developed data warehousing system to transmit invoice, order & purchase order data for new Timken acquisition to central data warehouse on a daily/weekly basis.

Platform: Crystal Enterprise Express server over Windows Server 2003, Firebird/Quantum Control database, VB Script jobs as Windows scheduled tasks

Tools: Crystal Reports, Notepad

Programming languages: VB Script, TCL/TK

Additional Details:

- Created Crystal Reports to extract data from Quantum Control database tables (later upgraded to Firebird); created ODBC connections to database.
- Installed Crystal Reports Enterprise Express server to automatically run Crystal Reports regularly.
- Wrote scripts in Windows Script Host and VB Script to format daily reports and ftp them to data warehouse repository; scheduled scripts as Windows scheduled tasks.
- Installed new DB driver when database was converted to Firebird; revised Crystal Enterprise Express configuration when server physically moved locations (and IP address).

Project Description: Created bots to upload/download order data to/from customer Internet portal; created reports over data downloads.

Platform: IOpus Internet macros, Access database, VB Scripts on Windows Server 2003 linked to AS/400 DB2 tables.

Tools: WebSphere Development Studio, Notepad

Programming languages: IOpus Internet Macros, Visual Basic, VB Script, AS/400 command language, SQL (various versions), RPG

Additional Details:

- Created macros using IOpus to automatically sign in to customer web portal, input selection data (such as customer number and end date of report download), upload order data (such as promise date schedule) and download schedule files to Timken server.
- Wrote scripts in Windows Script Host and VB Script to drive above macros, and to convert downloads from Excel to text files; scheduled scripts as Windows scheduled tasks.
- Wrote AS/400 C/L script to convert text files to DB2 physical files.
- Reports over downloads created using Excel Visual Basic, RPG ILE, and various SQL versions (MS SQL, IBM SQL, ASC Sequel).

Project Description: Intranet, web portal maintenance - TimkeNet (Timken corporate-wide) and Timken Aerospace web portal.

Platform: Timken Aerospace web portal - Jetspeed on WebSphere application server



Tools: TimkeNet web page maintenance tool, Notepad

Programming languages: Java, HTML, ASC Sequel SQL, ASC Sequel on the Web

Additional Details:

- Create reports using Excel VB, AS/400 C/L, RPG ILE & SQL versions (MS SQL, IBM SQL, ASC Sequel, NGS Query) and output as .pdfs or Excel spreadsheets.
- Also use ASC Sequel on the Web tool to make AS/400 queries available on web pages.
- Create web pages for Timken Lebanon departments.
- Add/delete/update links to reports and forms, including mass update of contact link to feedback web service.

Project Description: Created “consolidated” backlog to display open orders from new order entry systems managed by customer account reps, in addition to orders initiated at Timken Lebanon.

Platform: RPG, AS/400 C/L programs on System i, IFS

Tools: WebSphere Development Studio, Hyperion Brio data warehouse web interface

Programming languages: RPG, AS/400 CL, SQL

Additional Details:

- Developed query over data warehouse and coordinated FTP transmission from data warehouse server to local IFS.
- Wrote AS/400 C/L to convert daily data warehouse text file extraction to AS/400 physical file.
- Created AS/400 customer exchange table to tie non-Lebanon customer #s to Lebanon customer #.
- Wrote AS/400 C/L, RPG, DDS for printer file and physical files to create reports; scheduled report to run weekly on Robot.

Project Description: Numerous reports for operations, customer service and other departments.

Platform: AS/400 CL, RPG on System i; IFS; ASC Sequel on the Web; automated Windows scheduled tasks (Excel spreadsheet jobs) on Windows Server 2003

Tools: WebSphere Development Studio, Excel Visual Basic editor, ASC Sequel, ASC Sequel on the Web

Programming languages: AS/400 C/L, RPG, various SQL (IBM SQL, ASC Sequel, NGS Query, Microsoft).

Additional Details:

- Operations reports written include flow days, flow day variability, area completions, daily queue, assembly capacity, packed output, vendor turn (outsourcing), equivalent pieces capacity, processing queues.
- Applied Lean 6 Sigma concepts (equivalent units, equivalent operations, packed output) to many operations reports.
- Customer service – exception reports, specially formatted reports.
- Engineering – engineering/customer service part revision disconnects.
- Reports created using Excel Visual Basic, AS/400 C/L, RPG ILE, DDS (for physical files, display files and printer files), various SQL tools (IBM SQL, ASC Sequel, NGS Query).
- Some reports run on separate server from AS/400 and involve server maintenance, use of Acrobat Distiller, ODBC connection to AS/400, and other technical issues.

Project Description: System i systems & applications maintenance

Platform: System i

Tools: ISeries Navigator, Robot job maintenance tool, ESEND, various System i tools

Programming languages: AS/400 C/L, RPG

Additional Details:

- Revisions/maintenance to RPG ILE, DDS code (metallurgical lab report - increase size of one field; shipping report – add promise date to selection; on-time delivery report – add

- selection to query, and add menu option), backlog archive (C/L to save snapshots of backlog to different file members); engineering cover distribution page revision).
- Investigate and handle Robot job terminations, maintain Esend distribution lists.
- ESEND distribution revisions.
- Production data changes, one-time queries as needed.

Project Description: Various desktop help.

Platform: Windows XP

Tools: MS Office (Word, Excel, Access)

Additional Details:

- MS Office - Changes to Excel templates, creations of Excel graphs, Word assistance as needed.

Production Technician, Medical MetRX Solutions (formerly Medical Media Systems), West Lebanon, NH.

November 2002 to January 2004

*MMS primarily creates 3D color computer models from CT scans showing blood flow, thrombus, etc. of patients with blood vessel disorders. My main functions there were to:*

- Convert CT film scans & x-rays into digital format for later processing;
- Coordinate MMS' secondary business as a core lab/repository for x-rays of patients requiring stents.
- Archive/manipulate x-ray images by scanning x-ray film into computer, processing, then burning CD.
- Linux / Windows - copy/move files; create directories; file transfer (FTP); download from Internet.
- Download CT scans from variety of media (optical disks, DVDs, CDs, Internet).
- Everyday use of medical terminology in updating scan histories.

Self-Employed Translator/Programmer, Marley32.com

November 2001 to November 2002.

(See first resume entry above).

Editorial Assistant, Humor Department, Reader's Digest Association, Reader's Digest Road, Chappaqua, NY.

March 1999 to October 2001.

- Searched Internet (using Google, Northern Light & newspaper archives) & used library resources (including ProQuest, microfiche & reference books) to find material, item sources & contact info.
- Lotus Notes - boolean searches to find anecdotes in databases; file management.
- Quark - devised custom queries; created documents; applied styles & manipulated fonts.
- Word/Excel - wrote macros with pattern matching to manipulate exported Lotus Notes data & format text; designed flowcharts with Word graphics.
- Thought up titles for "fillers"; proofread items; transcribed speeches.
- Translated short items from German & French.

Publicity/Musician, Calico Junction (oldies/Irish music band), Bronx, NY.

June 1994 to December 2000.

- Created press kit (flyers, copy, press releases, logo, graphics).
- Sang and played keyboards & guitar.

Data Entry, Visiting Nurses Association of Hudson Valley, Mount Kisco, NY.

February 1998 to March 1999.

- Typed handwritten nurses' notes into computer; heavy use of medical terminology.

Administrative Assistant, John Hancock Insurance, Tarrytown, NY.

February to September 1997.

- Devised user-friendly Excel spreadsheet to distribute to brokers that calculated monthly rate for long-term care according to parameters they input.
- Used Mail Merge and created flyers in MS Word.

Volunteer, Westchester County Archives, Elmsford, NY.

1997.

- Conceived theme for exhibit entitled "Children At Play In Westchester"; selected appropriate archive photos using database; created captions, layed out exhibit along hallway walls.
- Transcribed old documents then entered text into database. archive photos using database; created captions, layed out exhibit along hallway walls.

Volunteer, Kunhardt Productions, Mount Kisco, NY.

1997.

- Transcribed letters handwritten by U.S. Presidents for video production.

Provider/Companion, Bronxville, NY.

April 1995 to June 1997.

- Spent one afternoon a week with Peter, a man who is legally blind and has a condition similar to autism.

Administrative Assistant, Pace University Lienhard School of Nursing, Pleasantville, NY.

November 1994 to April 1996.

- Everyday use of medical terminology to update course material.