



Curriculum Vitae

Richard G. Riley

BSc Hons (Comp Sys Eng) UKC Cantab

November 2009

Abstract

This document contains the Curriculum Vitae for Richard G. Riley. The document has been typeset using \LaTeX [1] on the Linux and GNU based Debian[3] OS using Emacs[4] and the AucTeX[5] package. The original \LaTeX document is available for download online at <http://www.richardriley.net/cv>.



Contents

1 Introduction	3
1.1 Brief Career Overview To Date	3
1.2 Position Sought	4
2 Personal Details	5
2.1 Contact Information	5
2.2 Education and Qualifications	5
2.2.1 Degree	5
2.2.2 A Levels	5
2.2.3 Awards	5
2.3 Personal Interests And Background	5
2.3.1 Early Machine Code Programming	5
2.3.2 Later Technical Interests	6
2.3.3 Sport and Non Technical Interests	6
3 Employment History	8
3.1 Point Information Systems	8
3.1.1 Employment Details	8
3.1.2 References	10
3.2 POST Software International	13
3.2.1 Employment Details	13
3.2.2 References	14
3.3 Logica Command Systems Group	15
3.3.1 References	15
A Platforms, Languages, Skills	17
A.1 Platforms Used	17
A.2 Languages	17
A.2.1 Compilers/IDE	18
A.3 RDBMS	18
Bibliography	19

1 Introduction

1.1 Brief Career Overview To Date

Graduating in 1989 joined Logica Command Systems group where I was sub contracted to the British MOD at RSRE¹ in Malvern.



Programmed ADA simulations concerned with modelling Air Defense scenarios as a result of the ADA experiences gained during the Software Engineering components of my degree.

In 1991 I moved to POST² Software International in Hamburg, Germany and specialised in OS/2 and C based POS Terminal and backend server applications. POST Software International have since been absorbed by Fujitsu and continue to be market leaders in POS SW and Servicing.

In 2004 I moved to Dublin, Ireland for personal reasons and worked for almost 8 years for POINT Information Systems developing CRM³ software in our own in house language as well as developing a C++ based GUI independent layer to enable our application to run on Windows and OS/2 with no changes to the business applications . Project managed and designed core components for the new generation application involving Business Objects and N-Tier servers.



Following the old adage that *a change is a good as a break* I decided to take an extended break from IT and bought a bar and music venue in Hamburg.

During the past years I have stayed active in SW, developing my own suite of software in PHP and CSS to provide a flexible and powerful framework for the development of small websites for bars and clubs. It runs on Linux servers and uses MySQL as a backend. During this period I have become familiar with the Linux/Gnu based Debian Operating system which I use at home for development, my own web server, rdbs and mail server and also for the audio and visual set up in the bar. My particular love is Gnu Emacs[4].

¹RSRE - Royal Signals And Radar Establishment http://en.wikipedia.org/wiki/Royal_Signals_and_Radar_Establishment

²POST - Point Of Sales Terminal

³CRM - Customer Relationship Management

1.2 Position Sought

I am looking for a challenging project in a forward thinking company that will drive me and which will, in turn, benefit from my skill set and the dedicated approach that I have demonstrated throughout my career.

My skills and abilities would suit a wide variety of positions including development management, applications development, sales and technical sales. As can be seen from the references provided, I am a flexible and committed individual who works well in a team environment as well as alone or away from the corporate office.

I am not tied to individual platforms or tool sets. Part of that is what makes me a valuable asset in that I judge projects, processes and tool chains on their merit and efficiency and am therefore well positioned to select the best tools and resources for the job having ascertained the needs of the project or projects in question.

I feel I can be trusted to ensure that my skills are best matched to the problems and efforts required to produce a quality IT product regardless of the sector or technical skill sets required.

If you have a position that you feel might benefit from my skills and approach then contact me to discuss possibilities at your convenience.

For short term contract work possibly you are looking for someone who can

- Rapidly isolate bugs using the tools at hand and provide timely fixes.
- English language QA and review of your system's internationalised interface.
- Review and comment on architecture designs.
- Assess and review programming teams efficiencies, strengths and also weaknesses.
- Do on site consultancy and provide feedback to the centralised development teams from customer installations.
- Advise and help on move to Open Source Operating Systems and Software in order to provide a more reliable and better value infrastructure
- Advise you on your existing development and IT administration processes.

My preference is contract work but am willing to discuss full time employment if a suitable match is found between that which your company offers and what I feel is a promising and far reaching career in the IT sector.

2 Personal Details

2.1 Contact Information

Full Name : Richard Graeme Riley
 Nationality: British
 Email: rileyrg@googlemail.com
 Mobile: +49 162 7110593
 Address: Augustenpassage 17
 20357 Hamburg
 Germany
 Homepage: <http://www.richardriley.net>

2.2 Education and Qualifications

2.2.1 Bachelor Of Science 2.1 Hons.

Date: 1986-1989
 Course: Computer Systems Engineering
 University: University Of Kent At Canterbury
 Description: Hybrid degree covering Analog and Digital Electronics and Software Engineering. Third year project featured the design and implementation of a speech acquisition and storage system and subsequent fast fourier analysis on the resulting waveforms using a suite of SW written in 6809 assembler.

2.2.2 A Levels

Date: 1984-1986
 College: Torbay Technological College, Torbay, Devon, England.
 Results:

Subject	Grade
Pure & Applied Mathematics	A
Engineering Science	A
Electronic Systems	C

2.2.3 Awards

In the final year of A-Levels was awarded the STC Electronics Spagnoletti Memorial Award when judged to be the most promising Engineering student on the basis of course work, 2nd year project and interview.

2.3 Personal Interests And Background

2.3.1 Early Machine Code Programming

I have always had an interest in the technical arena and programmed assembler Z80 and 68000 prior to going to University. My first Z80 programming was done on the Computers Lynx. An interesting machine which allowed the programmer to store code

in the video memory. I wrote a PacMan in Z80 machine code for the Lynx : it involved laboriously translating the assembler into hex machine code and entering the code via the built in monitor.

My *Defender* clone *Hoverzone* was published for the Sinclair QL in 1986. See <http://www.rwapsoftware.co.uk/games.html> for a somewhat dated looking screen shot. This was very well reviewed and was considered one of, if not the best action game for the QL. It was written in 100% 68008 Assembler. The project wore out my microdrives and forced an investment in an external floppy drive! My first. It's hard to imagine how things were back then when one sees the modern entertainment and development software available!

2.3.2 Later Technical Interests

At present I am familiarising myself with the Open Source Software movement and am experimenting with Linux. My development machine, work machine, and mail server and web server all run Debian Lenny.

I have an interest in the Emacs editor and have invested considerable time in re-familiarising myself with emacs - an editor used to good affect while working on a Unix system for the MOD developing ADA models to simulate Air Defence Systems. Exclusive use of Emacs to develop documents, websites and CV material using various extension modes. I have also contributed back to projects such as org-mode and nxhtml in order to help advance the Open Source projects.

Under the Linux platform I have developed and published my own multi-lingual web site supporting unlimited languages and "Live" translation and event management on my site at <http://www.shamrockirishbar.com/index.php>. As behoves an OSS based development, the demonstration videos are in OGG format. It makes use of PHP and CSS interfaced to a MySQL database to maintain events and messages in multiple languages.

I currently maintain 4 machines all running versions of the Debian OS. This includes my main development machine (Debian Squeeze), a Debian Stable IMAP, MySQL and Apache server, a Debian Stable IBM Thinkpad X30 and a Debian Stable Audio Visual workstation in my bar. All are interconnected using SSH and RSA public keys and synchronised using rsync.

On my main develop machine I run a version of Vista in order to test Windows specific web browsers with my php/css development.

Despite being a convert to the benefits of Debian and Emacs I am not an OSS zealot and have used both Windows and OS/2 throughout my professional career with no issues.

2.3.3 Sport and Non Technical Interests

I have always enjoyed watching and playing sport and was captain of my school table tennis team, represented my schools at First XV Rugby, First XI Cricket and represented the British Universities and Torbay ABC in the amateur boxing ring. I have always enjoyed cycling and my summer vacations generally involve long cycle rides on my hand built bicycle with panniers laden with stoves and tent. Some of my rides can be

seen here <http://richardriley.net/bike/index.html#sec-2> or here <http://gpsed.com/user/rileyrg>.

DRAFT

3 Employment History

3.1 Point Information Systems

3.1.1 Employment Details

Location	Dublin, Ireland.
Dates	June 1994 - November 2001

Development of Industry leading CRM product

Introduction	POINT was a fairly new company which had just moved its R&D to Dublin Ireland, was hired as an Analyst Programmer in June 1994. Initially was tasked with learning the in house language, POP, and fixing bugs in the DOS product. After that I migrated to the team responsible for porting that SW to the Windows GUI Environment. Shortly after that I applied and was accepted to the OS/2 migration team whose task was to create a GUI and Platform independent layer to enable us to develop platform independent business application software.
--------------	---

POP	Gained proficiency with their in house OO language POP, an Object Orientated language featuring late binding and platform independent p-code generation while understanding the developing core application framework. POP would be similar in concept to Java. Extended core libraries to provide more object orientated features to better enable code reuse.
-----	---

Migration Of Application to Windows Platform

Windows Development	Responsible for various modules including UI and business logic design for the cross table filtering tools (including designing and implementing all commonly used search operators an operator might need in and RDBM independent manner) Product extended to utilise various RDBMS systems using in house language as a DB independent API.
---------------------	---

Architecture	Architecture included a novel "Secondary Entry" approach which enabled all classes and objects to be redefined or extended on site without needing to modify the core product. Part of the core application development team tasked with high priority development to meet important schedules and deadlines.
--------------	---

OS/2 Migration

POINT Skill Summary continued

C++, OS/2 and IBM	Modified the C++ language kernel and Windows GUI DLLs to compile under OS/2 to enable seamless integration of POP application code with Windows or OS/2. Out team of 3 wrote a layer to emulate the Win32 API by calling relevant OS/2 Presentation Manager and GPI API calls. Where necessary redesigned the higher level business application to ensure it could work with the platform independent GUI layer.
Responsibilities	Managed team of up to 30 people concentrating on removing any platform specifics from application code and ironing out issues with the Presentation manager API at the C++ level.
Customer Interaction	Successfully managed the project acceptance test with IBM generating significant income for the company.

Project Manager For Next Generation N-Tier Product

Task	Design and implementation of the "next generation" of POINT product.
Business Objects	Move to Business Objects and scripting/workflow automation for multiple servers and client independent logic flow.
Scripting	Personally redesigned and implemented the core action engine which was responsible for processing work flows and scripts for the products business objects. Extended the graphical tools for designing the workflows to include transaction points, post and pre-action hooks amongst other improvements.
Training	Conducted periodic, highly successful technical architecture and language training to customer sites.
Sales	Participated in on site sales drives and technical presentations to potential new clients and existing client base alike. Including new architecture presentations to the annual user conference and the annual company review.

Miscellaneous

Development Environment	Designed and implemented a totally new UI and functionality for the in house development environment including class browsers, hot linking of code and context sensitive help for the on site consultant and in office programmer.
Presentations	Frequently performed sales support presentations in addition to presenting new architectures at the yearly customer show.
Hiring	Responsible for recruitment drives and attracting the best new students from Universities. Responsible for 2nd and 3rd level interviews for prospective candidates and final decision for acceptance.

POINT Skill Summary continued

Performance	Team led the successful initiative with DELL to stress test our new multi server based architecture in Limerick at the Dell labs where we had access to their top end business application servers
. Awards	Received significant share options and top highest level pay reviews during my period with POINT.
Summary	Working for POINT was a wonderful experience because of the variety of the work and the quality of the people I worked with. It was always a pressure company to work for but that pressure and the results it prompted was well rewarded and in itself developed many of us faster than other career routes might have. POINT has since been purchased by S1 Corporation.

3.1.2 References

References are provided in English and German where appropriate.

Name	David Lehrer
Role	Founder
Email	david@lehrer.com

Reference (English)	<i>Richard worked for me for many years on projects ranging from extremely sensitive to extraordinarily challenging. He could always be relied on to take ownership and make sure that the projects were completed and were of a very high standard. More importantly, he would often be a reality check. While others would promise and then find reasons not to deliver, Richard would identify issues very early and suggest alternatives or simply make sure expectations were set properly. He would always keep an eye on the entire team and not only coach them but also identify problems early before they became critical. Finally, Richard was a trusted confidante and was an invaluable sounding board to try out ideas – not only technical but also relating to management policy. He would certainly be an major asset to any company.</i>
---------------------	---

POINT References continued

Reference (German) *Richard Riley war für mich viele Jahre tätig und in unterschiedlichste Projekte eingebunden. Diese bedurften teils einer sehr extremen Feingefühls, stellten aber auch besonders hohe Anforderungen. Ich konnte mich immer darauf verlassen, dass Richard sich der Projekte annahm und eine Durchführung auf höchstem Standard sicherstellte. Wichtig dabei ist, dass er unsere Sinne für verschiedene Problematiken geschärft hat. Während andere entgegen ihrer Versprechungen Termine nicht eingehalten haben, konnte Richard die problematischen Punkte früh erkennen und alternative Lösungsmodelle vorschlagen. Oder er sorgte dafür, dass die Erwartungen erfüllt wurden. Er behielt dabei auch das Team immer unter Kontrolle, leitete es an und sorgte dafür, dass Probleme ausgeräumt wurden, bevor sie einen kritischen Punkt erreichen konnten. Schließlich war Richard auch ein zuverlässiger Vertrauter und ein unschätzbare Partner beim Versuch neue Ideen zu entwickeln – nicht nur technische, sondern auch jene, die die Firmenpolitik betrafen. Somit ist er gewiss ein großer Gewinn für jede Firma.*

Name **Charles P Dowd**
 Role Vice President Research And Development
 Email charles.dowd@travelonomy.com
 Mobile +353 86 8061752

Reference (English) *Richard and I worked together in a very tough and demanding environment. He needed to build high quality software with the limited resources of a start-up and succeed beyond expectations. Over 5 years together Richard was promoted a number of times to make best use of his great motivation-based leadership style. Richard can always be trusted to work hardest and bring out the best in his team and everyone around him. Personally, he was always well liked and respected with his peers, team members and executives.*

POINT References continued

Reference (German) *Richard Riley und ich haben zusammen in einem schwierigen Bereich gearbeitet, der hohe Anforderungen stellt. Seine Aufgabe war es qualitativ hochwertigste Software mit den begrenzten Mitteln eines Start-Up zu entwickeln und er übertraf dabei alle Erwartungen. Während der mehr als fünfjährigen gemeinsamen Zusammenarbeit wurde Richard oft befördert, somit konnte aus seiner auf Motivation basierenden Führungsposition der besten Nutzen gezogen werden. Man kann darauf vertrauen, dass Richard hart arbeitet und das Beste aus seinem Team und der Umgebung herausholt. Als Person war er bei Vorgesetzten, den Kollegen und seinem Team gleichermaßen sehr beliebt.*

Name **Julien Arsac**
 Role Lead Programmer (POINT, IONA technologies)
 Email julienarsac@gmail.com

Name **Peter Maxwell**
 Role Independent Software Consultant
 Email petemaxw@gmail.com
 Mobile +353 86 8312531

Name **Margaret Moore**
 Role Team leader
 Email mgtmoore@hotmail.com
 Mobile +353 87 2933215

3.2 POST Software International

3.2.1 Employment Details

Location	Hamburg, Germany.
Dates	Oct 1991- May 1994

Development of POST Solutions

Introduction	Deciding to look for work experiences abroad following a short vacation hitch hiking in Europe I came to Hamburg, Germany. Attracted to POST Software International because of their relatively small sized development teams, investment in new development facilities in Hamburg and their overall enthusiasm for growth and new technologies I joined them in late 1991 as an Analyst Programmer. My professional C experience was effectively zero, however in the break between Logica and my application to PSI, I had developed a suite of graphics libraries for the IBM and its VGA standard in a mixture of 386 machine code and C++ on the Borland C++ 2.0 IDE. Moving to the Microsoft compiler environment employed by PSI was not seen as a significant hurdle.
Job Description	Analyst Programmer responsible for wide variety of SW engineering tasks.
C Development	Included design and implementation of POS and backoffice SW in the C programming language both "in house" and on site for partners IBM Frankfurt. The back office applications consisted of the financial calculations at the end of the day in addition period reporting. The reporting and total calculations all protected by fault tolerant locks to ensure no discrepancies.
OS/2 & DOS	Primarily worked with IBM OS/2 server systems. The POST ran DOS.
On Site Customer Interaction	Worked on site for IBM during our testing phases for "Big Store" - stores using more that 100 POS Terminals simultaneously - the test environment set up at IBM Frankfurt. The Big Store project was primarily aimed at retail super stores such as Hertie and Alster Haus.
Awards	Received numerous bonuses and awards for dedication and quality of work in addition to overtime and weekend presence during potential deadline overrun.
Summary	The period in Germany working for PSI was extremely rewarding in terms of both professional and social life. The team was a hard working and talented small team who worked well together to meet difficult deadlines. Using C for the first time in a professional environment brought its own rewards and skill set as well as giving me the opportunity to use C debuggers for the first time to locate issues in a very large code base in an efficient and timely manner.

3.2.2 References

Name	Ole Grossklaus
Role	Independent Software Consultant
Email	Ole.Grossklaus@hanse.net
Mobile	+49-160-7155485
Home	+49-40-30981422

Reference (German) *In der Zeit vom Juni 1991-Juni 1994 habe ich mit Richard Riley zusammen gearbeitet. Der Aufgabenebereich bestand darin, Point of Sale Software für den Einzelhandel mit internationalem Einsatzgebiet zu realisieren. Die Point of Sale Lösungen werden bis heute bei namhaften Einzelhändlern mit verschiedenen Warenschwerpunkten (food, white goods, brown goods, fashion) eingesetzt und kommen in Einplatzfilialen bis hin zu großen Kaufhäusern zum Einsatz. Der Schwerpunkt der Zusammenarbeit bestand in der softwaretechnischen Realisierung von Point-of-Sale Funktionalitäten auf Kundenwunsch und nach Spezifikationen. Die Realisierung wurde auf OS2 und Windows Systemen unter Einsatz des RAFT Frameworks durchgeführt. In dieser Zeit hat Herr Riley durch seinen sehr hohen Einsatz und durch seine ausgezeichneten Ideen und technischen Architekturvorschläge einen wesentlichen Beitrag zum Erfolg von POS-Kundenprojekten geleistet. Herr Riley zeichnet sich aus durch eine sehr schnelle Auffassungsgabe, hohes technisches Verständnis und die Fähigkeit, sich auch ihm bis dahin unbekannte Bereiche der Softwareentwicklung in Eigenregie anzueignen und effizient im Projekt einzusetzen. Die Lösungen von deligierten Aufgaben an Herrn Riley waren von sehr hoher Qualität und konnten unmittelbar an den Kunden weitergegeben werden. Der Einsatz von Herrn Riley in Softwareprojekten ist durch ein hohes Maß an Effizienz und Eigenregie i.V.m. eigenverantwortlichem Arbeiten uneingeschränkt zu empfehlen.*

3.3 Logica Command Systems Group

Location	London and RSRE Malvern, Worcs.
Dates	Oct 1989- June 1991
Introduction	Successfully applied to Logica prior to receiving my Degree. Agreed to be sub contracted to RSRE Malvern as an Analyst programmer to work on an ADA simulation for the MOD (Ministry Of Defence) to analyse networking requirements for an Air Defence System The model I was assigned to work on was a large ADA model modelling the network requirements for the backbone of the Air Defense System : it typically took between 24 and 36 hours to process a scenario generated by other systems. The resulting reports were then gathered and presented to MOD personnel who could request system tweaks in order to maximise throughput and data integrity.
Tasks	General bug fixing, maintenance and implementation of new requests on a VAX VMS System. All work was classified and the results were for cleared personnel only.
Personal Achievements	During the familiarisation phase I noticed a lot of duplication and therefore increased maintenance requirements: reduced maintenance costs by replacing task specific code modules with ADA generics. Replaced the entire central data processing core with generic FIFO message queues with expedited message handling in order to bring the model run time down from more than twenty four hours to about two and a half hours. Made responsible for porting the complex ADA model to the Convex Super Computer including rewriting all the terminal IO and dealing with endian issues with the simulator model data.
Customer Liason	Technical presentations to Malvern Science Officers and US Military sponsors.
Summary	My first job out of University was a challenging and fulfilling role. A lot of responsibility very quickly in an enjoyable work environment. My decision to leave Logica after almost 2 years was based on my wish to travel - something that was not available within CSG ⁴ at that point.

3.3.1 References

Name	Jack Ramsay
Role	Project Manager at Logica, now European Director of Quality, Products Operating Group. Accenture
Email	jack.ramsay@accenture.com
Mobile	+49 175 5767265

⁴CSG - Command Systems Group

Logica References continued

- Reference (English) *Richard and I worked together in an extremely complex radar and network simulation environment. This involved developing complex algorithms to model the entire UK ground, air and sea defence environment to understand limitations on systems and people. These models were developed in C and ADA on parallel computers and VAX servers, and state of the art display systems. I was always very happy with his commitment and work ethic, and the high quality of his work.*
- Reference (German) *Richard und ich haben auf dem extrem komplexen Gebiet der Radar- und Netzwerksimulation zusammen gearbeitet. Dies beinhaltete die Entwicklung schwieriger Algorithmen, um die gesamte Fläche Großbritanniens abzubilden, inklusive des Luft- und See-Verteidigungsumfelds. Es diente dazu, die Beschränkungen der Möglichkeiten von Systemen und Menschen zu verstehen. Solche Modelle wurden entwickelt in C und ADA auf parallelen Computern und VAX Servern, sowie modernsten Display-Systemen. Ich war immer sehr glücklich über Richard Rileys Einsatz, seine Arbeitsmoral und die hohe Qualität seiner Arbeit.*

A Platforms, Languages, Skills

In addition to the keywords below I have always been particularly good at chasing down problems and isolating the problematic areas in a timely and efficient manner. A skill I believe my early assembler days cultivated. The level of experience in the tools listed varies but my view is that any competent analyst can learn the tools required for a project in short time.

A.1 Platforms Used

- (Early days) Nascom, Lynx, Sinclair QL, Atari 400.
- Windows 3.1 through to Vista
- VAX/VMS
- Convex - Unix
- IBM OS/2 1.3 through to Warp 3.0
- Ubuntu
- Debian

A.2 Languages

- C (POST Software International)
- C++ (POINT Information Systems)
- Ada (British MOD Simulation work)
- Z80,6502,68000,x86 (Personal projects and University)
- HTML, XHTML, CSS (Current interests)
- POP (POINT)
- PHP (Current interests)
- LaTeX (Current interests)
- BASH (Current interests)
- Python (dabbled with looking at Django)
- Haskell (use it for XMonad[2] customisation)

A.2.1 Compilers/IDE

In addition to the above languages above I have used various compilers, profilers, IDEs and debuggers and developed own my own development system. See POINT Employment for more details. These include but are not limited to

- Eclipse
- Visual Age (OS/2)
- MS C
- Visual Studio
- Borland C++ 2.0
- Gcc
- GDB
- Emacs

A.3 RDBMS

- DB2/2
- Oracle
- MySQL
- SQL Server

Bibliography And Links

- [1] Leslie Lamport, *LaTeX: A Document Preparation System*. Addison Wesley, Massachusetts, 2nd Edition, 1994.
- [2] *XMonad*: xmonad is a dynamically tiling X11 window manager that is written and configured in Haskell, <http://xmonad.org/>.
- [3] *Debian*: a free distribution of the GNU/Linux operating system, <http://www.debian.org/>.
- [4] *Gnu Emacs*: is an extensible, customisable text editor, <http://www.gnu.org/software>.
- [5] *AucTeX*: is an extensible package for writing and formatting TeX files in GNU Emacs and XEmacs, <http://www.gnu.org/software/auctex/>.
- [6] *org-mode*: Org-mode is for keeping notes, maintaining ToDo lists, doing project planning, and authoring with a fast and effective plain-text system. <http://orgmode.org/>.