

CURRICULUM VITAE

PERSONAL DETAILS

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EXECUTIVE SUMMARY

I am an experienced software engineer who, over a career currently spanning more than two decades, has a record of consistently delivering highly technical solutions on a number of platforms using a wide range of tools. I have demonstrated an ability to learn new skills and develop and adapt existing skills in order to maintain a position at the forefront of the field as it has grown. Cross-platform development has taught me pragmatism and the importance of taking the wider view.

I have shown an ability to effectively communicate both on a technical level with other engineers and on a higher level with customers and product end-users. I continue to demonstrate enthusiasm for the opportunities offered by this exciting field.

I am seeking a senior development role, ideally under Linux, with the opportunity to move into project management.

SKILLS SUMMARY

- Operating Systems
Linux, Windows, DOS.
- Frameworks
QT, MFC, .NET.
- Programming Languages
C, C++. C#, Fortran, Bash scripting.
- Networking
TCP/IP, ethernet, routing, firewalling.
- Server Administration
Active directory, SQL Server, MySQL, Apache, Exim, Dovecot

EMPLOYMENT HISTORY

October 2010 –

Gordano Ltd, Clevedon

Senior Software Developer.

Gordano provides cross-platform email, collaboration and groupware messaging solutions. Gordano also has a cloud-based offering for customers who don't wish to operate their own servers.

I am employed within the development department as a developer of core server applications where I am responsible for the maintenance and development of services to provide email, webmail and groupware solutions. I am primarily responsible for the development of IMAP, POP and WWW servers, together with peripheral services such as Anti-Virus and Anti-Spam.

The code is written in C/C++ with libraries which enable the code to compile and be installed on a variety of platforms including Windows, Linux, Solaris and AIX.

February 2010 – October 2010

Ultra-AudioSoft Ltd, Cirencester

Senior Development Engineer.

AudioSoft provide data recording and analysis solutions to allow organisations to preserve and rapidly locate important information. Their systems are used in a wide variety of markets including Air Traffic Control, Defence, Law Enforcement, Emergency Services, Court Rooms and National Security. Their mission-critical solutions meet evidentially admissible standards and allow capture, playback and analysis of various

data types including audio, TV and high resolution video, fax, VoIP, IP, e-mail, radar and sonar data. User interfaces and visual representations of the data are tailored to each particular market following detailed consultation with industry users and experts. The recording technology is optimised to allow their audio analytics solutions to automatically identify important data, resulting in improved operational capabilities and intelligence.

I was employed within the research division creating solutions to the increased need for analysis of network traffic of all types, but with an emphasis on VoIP communications. Much of the work involved the continuous development of a service based solution written in C#, utilising the .NET framework, WCF and SQL-Server running on Windows Server.

I was also responsible for the architecture, design & development of a system for the capture, analysis & presentation of data in a law enforcement and national security environment which was written in C/C++ running on Linux.

March 2008 – November 2009

Norwegian Meteorological Institute, Bergen

Senior Development Engineer, responsible to IT Manager.

Research and development at the Norwegian Meteorological Institute is undertaken within meteorology and oceanography with emphasis on atmospheric and marine forecasting, climate and environmental studies. The activity involves approximately 70 scientists and meteorologists, and is an important basis for the institute in order to fulfil its role in producing high quality services to society. This task includes the development of methods for the operational forecasting service and the contribution of new ideas and methods for the improvement of the different services. An important field of research is climate analysis and climate modelling in order to understand regional climate changes related to global changes.

I was based at the Forecasting Division of Western Norway in Bergen. My role was split approximately 80:20 with 80% of my time dedicated to development and 20% dedicated to support and operations.

There are three main systems at the Meteorological Institute, these being desktop applications, back-end modelling software and the web-based systems. The web-based systems are written in Perl, utilising JavaScript, running on Apache and using MySQL databases – these systems are generally used to place orders or request results of a particular operation or model. The back-end modelling software is written in C/C++ and Fortran. Desktop applications are used to visualise and manipulate the results from the models and are written in C/C++ & Fortran using Qt as the windowing framework. There are also desktop applications which are used to standardise the production of forecasts and warnings before dissemination to the media and other meteorological bodies across the world.

I also maintained the computing infrastructure upon which this software depends, including server, software & network installation, operation & maintenance and which also included technical support to end-users both in Linux and in the Citrix servers which is used to provide a Microsoft Windows platform to those users who required it.

June 2006 – February 2008

Westec AS, Kokstad

Senior Software Engineer, responsible to Development Manager.

Westec designs, builds and delivers systems related to security, mobilization and HSE. The portfolio includes systems within the areas of: access control, camera surveillance, area and object security, intruder alarm, personnel and object tracking, mobilization and crisis management system. Westec was the sole supplier for the total integrated security system at OSL (Oslo Lufthavn Gardermoen), and has made extensive deliveries to the Norwegian Defence. Westec has also delivered the ISPS Security system in the Bergen Port including The Coastal Steamer Terminal. Westec is a part of RealGroup. RealGroup is a Norwegian technology company with subsidiaries companies Amitec AS, Westec AS and InControl AS. The companies within the group deliver products and solutions to customers within; Oil & Gas, Power/ Utility, Land based process industry, Defence, Governmental & Airports.

I was employed as a development engineer concentrated on the development and implementation of an integrated security solution incorporating access control, CCTV, emergency mustering, ID badging, perimeter intrusion detection and security management. The PC Integrated Security Management System is a Windows application written in Microsoft C# using the .NET framework utilising Remoting for client access and SQL Server database integration. The system uses TCP/IP for communications both among the hardware components and between the server and client. Both development and networking skills were key requirements in this position.

March 2006 – June 2006

Diptel AS, Stord

Senior Software Developer, responsible to Development Manager.

I was employed as a Senior Software Developer for a new company recently formed to offer voice-over-IP (VOIP) services to small and medium sized businesses. I was employed to work on the development of a Linux based telephone system using Asterisk open-source software.

I developed a custom Linux distribution based on Ubuntu. I also built a local package repository from which customers could update their systems automatically.

October 1997 – December 2005

Norman ASA, Lysaker

Senior Software Developer, responsible to Development Manager.

I worked on the Linux version of the Norman Virus Control product which consists of a number of integrated programs designed to work together to provide the user and network administrator with all the tools required to maintain a secure and virus-free environment. The software consists of on-demand and on-access scanners together with administrative tools to keep the software updated as new definition files are released.

Most notably I wrote a library to enable the cross-process sharing of synchronization primitives such as mutexes and semaphores. I was also heavily involved in the porting of the Norman Messaging System to the Linux platform. It is this system which collects, routes and transmits messages from client systems via the network to the administrator, via one of a number of methods including e-mail, SNMP and SMS. I have also spent some time investigating the problems involved in internationalization and localisation, specifically the encoding of text such that it remains consistent across platforms and file-systems.

Prior to this I worked on the PC security suite of programs which included encryption and access control software. I developed a bootable CD which enabled a disk formatted under any of the current major operating systems (DOS, Windows, Linux) to be scanned for viruses.

Most code is written in C, with some C++, to maintain portability. The anti-virus engine contains some x86 assembly code.

Duties include

- Pre-production work including market-requirement-specifications, project analysis and evaluation, feasibility studies and software design-specifications.
- Coding.
- Stringent quality control.
- Support, including production of documentation.

February 1994 - August 1997

Dr Solomon's Software Ltd, Aylesbury

Software Engineer, responsible to Development Manager.

Dr Solomon's is one of the world's leading anti-virus and PC-security companies, where I was responsible for the development of 'The Magic Bullet' (known as 'SOS' in the USA). This is a bootable diskette which runs the FindVirus on-demand anti-virus scanning program. I had to write enough of a MS-DOS compatible operating system to support running FindVirus,

Prior to that I was responsible for the PC-Security toolkit, the main element of which was a low-level diskette authorisation system and security product (**RingFence**). This involved writing code to monitor the behaviour of applications running on PCs under the DOS and Windows environments preventing unauthorised access to elements of the system.

July 1989 - July 1993

Joseph Dawson Ltd, Bradford

Analyst/Programmer, responsible to Business Systems Director.

I was one of a small team responsible for the support of all computer systems in operation throughout the mill. This included maintaining existing software (finished-goods stock control system, interface between electronic weigh scales and PC); writing new software to supersede existing systems; analysis and programming of new software; user support for all applications software (Lotus Symphony, SuperCalc, WordPerfect); maintenance of all PC based hardware, responsibility for the installation & support of peripheral equipment such as cabling and the evaluation of new hardware/software systems.

May 1989 - July 1989

North Park Computer Services Ltd, Halifax

Programmer, responsible to section manager.

I worked as one of a team of programmers producing motor vehicle insurance quotation software.

January 1988 - May 1989

Rubicon, Halifax (Self-Employed)

Self-employed consultant, serving schools and businesses in the Halifax area.

I ran my own business supplying schools and small businesses in the Halifax area with PC systems, software and consumables, including network installation and support where required. I also offered a bespoke programming service.

EDUCATION / QUALIFICATIONS / TRAINING

November 1987 - December 1987
PYBT Business Training

Prince's Youth Business Trust

October 1984 - May 1987
Electronic Computer Systems (B.Sc.(Hons))

Salford University

September 1976 - July 1984

Halifax Catholic High School

GCE 'O' Level

Computer Studies (A), Physics (A), Mathematics (A), English (B), Chemistry (C), Geography (C), Religious Education (CSE 1)

GCE 'AO' Level

Mathematics (Pure & Mechanics) (B), General Studies (B)

GCE 'A' Level

Computer Studies (B), Physics (B), General Studies (B)

OTHER INFORMATION

Security Clearance : I have held Norwegian security clearance to SECRET.

Availability : 1 month.

References : References and referee details are available on request.

Driving Licence : Full (clean).

TECHNICAL EXPERTISE

I have experience in using and/or writing software to run under DOS, Windows and Linux. I also have experience with interfacing non-standard hardware to the PC.

I have strong networking skills, including knowledge of TCP/IP and ethernet and have experience of troubleshooting communications and routing problems.

I program primarily in C/C++ and 80x86 Assembly Language. I am reasonably strong in Pascal and BASIC and have used Fortran 77 and COBOL.

I have experience installing and maintaining the Windows and Linux Operating-Systems and attendant software. I have installed (and still maintain), mail, web, ftp and print servers. I currently run all services other than DNS for my own domain (rainydayz.org) on computers which I have at home.

ABOUT ME

I am forty-seven years old and have been married to my wife, Fiona, for over 20 years. We have two teenage children.

I am interested in most things related to computers and in my spare time I like to spend time with my family. I enjoy maintaining and running classic Mini cars. I am chairman of a local enthusiasts club, Renegade Minis, for who I also maintain the website.