

Curriculum Vitae

Name: Dylan Harris

Market: Contract

Location: Belgium; would relocate for the right opportunity.

Languages: English, weak French. I should have A2 Dutch and A2 German by September.

Work rights: EU.

Available: September 2007

Sex: Male

Date of Birth: 23rd September 1957

Married: No

Dependants: None

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Web: dyanharris.org

Postal: Belgium.

Summary

Skills

General: C++ since 1993, C since 1981, STL, TR1, lint, WTL, boost, real time, multi-threading, TCP/IP, UDP, HTML, XML, CryptoPP, OpenSSL, computer security, encryption.

Windows: since 1987, XP/CE/2K3/2K/NT/9x, .NET, Visual C++/Studio 2005/.NET/6/5/4/2/1.52, C#, embedded C++ 3/4, Platform SDK, Win32 SDK, NET, MFC, ATL, COM, DCOM, ASP, source safe, services.

Unix: since 1982, Linux, Open BSD since 1999, OS/X, gcc 4.1 / 3.x / 2.9x, posix, SVR5, pthreads, daemons.

Experience

I'm confident and experienced in all aspects of the C++ language.

I've worked in many development roles, in many organisations, in many industries: multinationals, start-ups, teams, solo, work to instructions, work out what to do and do it, since the mid-1980s.

I've programmed Windows since 1987, and Unix since 1982. I've programmed for all Windows except Windows 1.0, Windows CE 1.0 and XP/NT Embedded, and for numerous Unix since the seventh edition, including Open BSD, Linux and OS/X.

I've got a rich knowledge of accompanying software technologies and am confident and able to pick up new knowledge and skills as necessary.

Recent Industries

Manufacturing 1.5 year

Computer security 5.5 years

Telecoms 3.5 years

Pharmaceutical 4.5 years

Multimedia 4 years

Sundry

Keeps up to date with developing information technology;
Member of the ACM;
Subscriber to MSDN Universal & Apple Developer Network;
Keen to work across the EU;
Able to communicate with techies and mortals alike;
Familiar with Windows, Open BSD, Linux, and OS/X;
Administration awareness via a network infrastructure using Open BSD;
2:1 degree in Computing Science;
Clean driving licence and valid passport;
Never applied for security clearance.

Experience

July, August 2007

Summary: On a Goethe Institut course to revitalise my German.

Please contact me for details

November 2006–June 2007

Industry: Software

Location: Mechelen, Belgium

Summary: Develop an emulator for a multi-core CPU.

Environment: Visual Studio 2005, SystemC, Python, boost, perforce.

Tasks:

Reason for Departure:

Secure Wave SA

May 2006–October 2006

Industry: Software

Location: Luxembourg

Summary: Develop support products. Debug core product.

Environment: Visual C++ 2003, STL, ATL, WTL, Platform SDK, Windows Shell, PC Lint, TCP/IP, multi-threading, Source Safe.

Tasks: Design and implement a multi-threading library (built on ATL's thread pool) to enable programmers inexperienced with multi-threading techniques to produce multi-threaded apps. Design and implement a networked PCs device scanning application. Bug fix a secure FAT filesystem for USB keys. General bug-fixing in main product.

Reason for Departure: Once the new product was released, all contracts were terminated.

Punch Graphix

December 2005–March 2006

Industry: Manufacturing

Location: Lier, Belgium

Summary: Develop key core component of a new product.

Environment: WinCE, Visual C++ 2005, .NET, STL, boost, C#, Windows Forms, XML, CAN Open, DCOM.

Tasks: Design & construct a configuration manager, a core component within a larger project to develop a new range of industrial printers. This software uses CAN Open to communicate with industrial components. The main application is written in C++, the accompanying internal utilities and test programs in C#.

Reason for Departure: Following a change in senior management, the project was mothballed.

Sortex

April 2005 to December 2005

Industry: Manufacturing

Location: London

Summary: Port a WinCE application to a new version of Win CE.

Environment: WinCE, Embedded Visual C++ 4.0.

Tasks: I'm porting an existing Windows CE application which controls sorting machines, from one Arcom Single Board Computer to another. The board controls a Sortex food sorting machine. This is a fixed price contract, due to end in October, ended late, partially because of a major reorganisation inside the company. My activities were split between Sortex and Cryptic Software, below.

Reason for Departure: The project completed.

Modgraph Consultants Ltd.

Weekends, 1997 onwards

Industry: Pharmaceutical

Location: Welwyn, UK

Summary: Maintain an advanced application. Create additional applications.

Environment: ATL, STL, COM, MFC, TCP/IP, DLLs, Visual C++ 6, GUI, ISAPI, HTML, Javascript, all MDL ISIS file formats, PC Lint, TR1, boost.

Tasks: I support this company's chemical registration system servers at the client end, maintaining the middle layer DLLs and ActiveX controls. I've constructed some simple MFC applications.

References available.

Reason for Departure: I haven't! They still offer me occasional pocket money projects.

Symbian

March to August 2004

Industry: Telecoms, IT.

Location: Cambridge

Summary: Construct secure installation application.

Environment: W2K, Open SSL, Visual C++ .NET, STL, perforce. I do not have Symbian OS.

Tasks: I built Windows package construction software using OpenSSL, Visual C++, and perforce. Symbian produces an operating system for mobile phones, but I'm built Windows software. I left because the work was done; they have little long term use for Windows skills.

Reason for Departure: The project was finished.

Cryptic Software Ltd.

May 2001 to November 2005, not continuously.

Industry: Computer security, IT.

Location: Kettering, UK

Summary: Create computer security apps and utilities for Windows server (NT 4.0, 2000 and 2003). Create a secure client for all versions of Windows since 1995 and many flavours of Unix.

Environment: Windows CE 2.12 / 3.0 / CE .NET, Visual C++ 6 / .NET, embedded Visual C++ 3/4, CryptoPP, TCP/IP, sockets, Platform SDK, ActiveX, STL, MFC, GUI, 2K3/XP/W2K/NT/9x/CE, multi-threading, real time, embedded, COM, DCOM, C, some DDK, DLLs, Linux, Darwin, OS X, Open/Free/Net BSD, SuSE Linux, makefiles, shell, GNU C++ 2.95 upwards, makefiles, shell programming, daemons, Java, HTML, etc.

Tasks: Design & construct a real-time agent utility to run on all target systems to monitor activity for security threats. Design & construct an ActiveX control for use by a server for communication with these agents. No U/I. Deal with communication protocol.

Reason for Departure: They ran out of money, twice.

Traffic Master

June 2000 to March 2001

Industry: Telecoms, Networking

Summary: Build server applications for their web site. Administer that web site temporarily.

Environment: NT, Visual C++, SQL Server, Platform SDK, STL, Multi-threading, ISAPI, TCP/IP, W2K, MFC, DCOM, COM, ATL, ASP, Perl.

Tasks: To build a robust multi-threaded read time server communicating with various clients using TCP/IP, DCOM and ISAPI, then administrating the software as part of the TrafficMaster Online site, which hosted components of the RAC, Orange, Orange WAP, What Car, and Palm sites. I wrote code using and communicating with NT4, W2K Workstations, IIS 4/5, SQL Server 7, DNS, PC Anywhere, Red Hat Linux, and many bespoke components. I did not maintain the Cisco kit (PIX, LD, switches).

Cambridge Consultants Ltd.

Jan to May 2000

Industry: Telecoms

Summary: Complete and maintain application to manage Nokia Eksos switch.

Environment: Nokia, Eksos, Q3 Stack, VC++, MFC, GUI, STL, Platform SDK, NT, Perl, Source Safe.

Tasks: Complete implementation of Node Manager for Eksos.

Pi

July to December 1999

Industry: Motor

Summary: Assist in construction of track monitoring software for a particular formula-1 team.

Environment: DCOM, MFC, Platform SDK, GUI, multi-threading, NT/98: Source Safe, Office.

Tasks: Enhance existing sophisticated product to customer specifications.

Redstone Telecom PLC

Oct 1997 to June 1999

Industry: Telecoms

Summary: Redesign their bespoke switch. Build utilities to communicate with Nokia switches. Build many small applications.

Environment: MFC, GUI, Visual C++ 6.0, Windows NT, NT Services DCOM, TCP/IP, Platform SDK, multi-threading, ISAPI, Nokia switches, MSMQ, MAPI, named pipes, SQL Server 6.0, Visual Basic 6, FTAM, Exchange 6.5, resilient networking, roll back, roll forward, election, Perl

Tasks: Development of an end-user application, automatic acquisition of Call Data Records (CDRs), and a CDR auditor. Many utilities. The most interesting part was to design the software engine for a resilient network to provide relevant customer data to Redstone's bespoke call-forwarding switches. This would now be called a P2P database.

GlaxoWellcome

June 1996 to October 1997

Industry: Pharmaceutical

Summary: Build highly advanced and complex pharmaceutical registration package.

Environment: Windows 3.1, NT 3.51 and 4.0, Visual C++ 4.2 and 5, MFC, DLLs, DDE, TCP/IP, Win32 SDK, Oracle, ActiveX, Visual Basic 4, TGF and MOL files, MDL ISIS/Draw, SourceSafe.

Tasks: Finish development of client side of chemical registration software.

Dorling-Kindersley Multimedia

April 1994 to May 1996.

Industry: Multimedia

Summary: Smorgasbord.

Environment: Multimedia, GUI, Visual C++ 1.5x, 2.x and 4.0, MFC, Microsoft Test 1 and 2, screen saver, Windows Setup toolkit, OCXs, SourceSafe, HTML.

Tasks: Various tasks in construction of Dorling-Kindersley Multimedia products.

Note: Legal advice to DK regarding Microsoft prevented me writing their second generation player software.

Andromeda Interactive

November 1993 to March 1994

Industry: Multimedia

Summary: Build a multi-media engine.

Environment: Windows 3.1 SDK, Visual C++ 1.0.

Tasks: Design and build a multimedia player.

Xionics

July 1993 to October 1993

Industry: Hardware

Summary: Develop a video device driver

Environment: C, Windows 3.1 DDK.

Tasks: Build a Windows 3.1 device driver for their video board.

Dorling-Kindersley Multimedia

Duration: a year

Industry: Multimedia

Summary: Build a multimedia engine for DK's products for Microsoft.

Environment: Microsoft C, Multimedia, Windows 3.1, GUI, Macromedia Director, Apple Macs.

Tasks: Quickly designed and built a multimedia player in C.

Note: This was for Microsoft Musical Instruments. I spent a few weeks at Microsoft in Seattle during the pre-release phase. The product won a number of prizes. Microsoft re-used my player in a number of other products.

M.I.C.S.

Duration: 2 years.

Industry: Insurance

Summary: Build bespoke insurance products for GAN.

Environment: PC Express, Win 3.1, Office, Visual Basic, OS/2.

Tasks: Designed and produced financial products.

The Multi-Media Corporation

Duration: Six months.

Industry: Multimedia

Environment: Win 3.0, Multimedia, Microsoft C, GUI, Commodore Amiga.

Tasks: Team leader for development of multimedia sequencer in Windows.

Apricot PLC

Duration: 4 months.

Environment: TCP/IP, Win 2.1, Microsoft C.

Industry: IT

Tasks: Team leader for new version of in-house communications package.

Note: Sir John Harvey Jones advised Apricot to get rid of most of their software development people. This included me.

Inforem PLC

Duration: 2 years.

Industry: IT

Environment: GEM, GUI, Win 2.0 SDK, Turbo Pascal, team leadership.

Tasks: Team leader for development of a GEM-based, and subsequently a Windows-based, methodology tool.

Software Experts Ltd.

Duration: 15 months.

Industry: IT

Environment: Lattice C, GEM (PC/Atari), GUI, DOS, Apple Mac.

Tasks: Designed and gave technical training courses.

Business Experience

Cyberspace Services Ltd.

August 1993 to June 2003

Environment: Administration, DMZ, Win2K/9x/NT/XP, Linux/ Solaris/ Open BSD, TCP/IP, SMTP, POP3, HTML, NNTP, bespoke servers, HTML, ASP, VBScript, Jscript, Perl.

Tasks: Run this small company. Maintain systems. I now use management companies.

DT Travel Ltd., and DT Travel (North-West) Ltd.

January 1994 to January 1998

Tasks: Founded and funded these companies. I was chairman, not involved in running the company day-to-day. I was the one who had to make people redundant.

Education

University of Greenwich, née Thames Poly.

Result: 2:1 in Computing Science (CNAA).

Environment: PDP/11, Unix, CP/M, MP/M, Pascal, C, Prime, Arpanet, distributed databases, production systems, artificial intelligence, table football.

Tasks: My postgrad project, not written up, combined artificial intelligence using production systems and a distributed database management engine running under unix (seventh edition on a PDP/11). Amongst other things, it was designed to manage atomic transactions across a distributed database with unreliable nodes, using an agreed roll back and roll forward mechanism. As part of my postgrad, I taught DP including design methodologies for computing science students and programming for non-computing students.

Bedford School

Results: 9 O'Levels, A'Levels in Maths, Physics and Chemistry

Environment: PDP/8E, Basic, Focal. 8K of 12-bit words supporting three users.

Kit

Network: I am renewing my hardware to dual boot iMac, various Windows/Linux PCs, & Soekris SBCs running Open BSD. My Soekris kit provides my networking infrastructure.

Societies: I'm a member of the ACM.

Library: I used to have a massive library of ancient computing books. I've now got a modest library of contemporary technical books; it's more useful to be up-to-date. I subscribe to MSDN universal, and Apple Developer Network.

Miscellaneous

Poetry: Labelled as a modernist poet. Browse my website.

Other skills: weak French, published photographer, can conduct elections, can read musical scores.

Anorak: A member of Le CX Club De France, slurp New Scientist, got a deserved real ale gut, enjoy good food, a cat man, used to do politics.

Nature: Outgoing, sociable, egalitarian, even so, likely to be found sitting in a corner at parties. Prefer to give people the chance to screw up rather than requiring them to prove themselves. Detest arrogance and stupidity. Like everyone, I dislike herd behaviour (*sic*).

Hypocrisies: I admire good dress sense, but am sartorially inelegant.

Teamwork: I can work alone, or in teams, as required. I am perfectly capable of supervising people and running things, and I know how to effectively organise and manage unreliable teams through my political experience, but I get far more satisfaction from engineering.