

## — Introduction —

*Advanced C++ engineer:* from Windows 2 to 10; from unix system 3 to Centos 7, plus Open BSD, OS X. Wide knowledge of software technologies. Developed in many languages. Able to acquire additional skills. Highly flexible & experienced; often stood in to cover unexpected gaps in teams.

*Industry experience* includes the state, IT security, finance, health, TV, pharmaceutical, car, communications, manufacturing, publishing, hardware and training. Small business experience includes corrupt press: 40 poetry books published to date—my books are published elsewhere.

*English* mother tongue, French at home, some Dutch (to A2), a little German (to A2), learning Luxembourgish (B1).

## Dylan Harris

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EU citizen  
British passport  
Luxembourg resident

Degree in Computing Science  
Member ACM, IEEE  
Subscriber MSDN, ADN

Unavailable

## — Major Achievements —

Designed & implemented simulator for medical implants DSP.

Microsoft released five multimedia products using my code.

Acorn named me in the BBC micro ROM.

## — Skills —

C++, STL, boost. All Visual Studio versions, gcc 5/4/3/2, gnu tools, some Xcode. C (1985–1993), Python, C#, bash, some SQL, HTML, XML, CSS, Javascript, ASP & PHP. 8, 16, 32, 64 & 128 bit processors.

*Windows* from 1987 including WinCE. *Unix* from 1982, *Linux* from 1990s, *OS X* from 10.2, *Open BSD* from 2.8. *DOS*. *Windows API*, *SDK*, *COM*. *Multi-threading*, *real time*, *security*, *TCP/IP*, *cross-platform*, *RPC*, *daemons*, *services*, *OpenSSL*, *CryptoPP*, *ATL*.

*Administration* of multi-platform internal networks (*Windows*, *Open BSD*, *OS X*, *Linux*), *internet facing services*, *Windows domains*, *unix servers*. This was background knowledge until my current role.

*Irregular subscriptions* to *MSDN (Enterprise)* since 1994, *ADN* since 2004. *Usage* of *CS 5.5 InDesign*.

Some managerial, architectural, team leading and project management experience.

## — Experience —

*Information available upon request, from March 2015, Enterprise Architect, automatic translation, Luxembourg*  
*Architect* for next generation automatic translation systems.

*Information available upon request, from May 2014–February 2015, developer/operator, automatic translation, Luxembourg*  
Maintaining the middleware layer. C++, gcc, Centos 5, bash, python, ssh, boost, subversion, git, nagios, nrpe. A maintenance / development / software administration role.

*Lumension, September 2012–January 2014, Senior Software Engineer, security, Betrange, Luxembourg*  
Maintaining device control security products. Added print shadowing features. Analysed and wrote requirements to adapt product to revised international security standard. Team moved to agile & scrum with training from Agile 42. Visual C++ 2008, 2010, and 2012; *Windows SDK*, *OpenSSL*, *boost*, *RPC*, *Team Foundation Server*, *VMWare*, *ASP*. In November, 20% of staff worldwide were made redundant: in Luxembourg, it was last in, first out.

*Civolution, February–August 2012, contract, television, Eindhoven, the Netherlands*  
Team to automate testing of television monitoring services. *Windows*, *Centos*, *SSH*, *bash*, *Python*, *Robot Ride*, *Selenium*. Left the Netherlands for personal reasons.

**Thomson Reuters**, December 2009–February 2012, contract, finance, Paris

Built a test framework in C++ using existing internal low level libraries to test high performance financial middleware, with a Python interface so others could write test scripts. Windows, C++, Visual Studio 2005 and 2010, STL, boost, XML, ODBC, mySQL, RPC, multithreading, multiprocess, Windows SDK, PIXL, RFA. Contract ran out.

**wormfest**, June–December 2009, partnership, the arts, Dublin

With a colleague, created, set up, organised, funded and ran an avant garde poetry festival. Took place mid-December 2009. Voluntary. Made a loss of €30 on a budget of €5000.

**Cybertrust**, March 2008–April 2009, Senior Software Engineer, security, Dublin

PKI application suite maintenance, Solaris administration. Medium team. C++, C, Solaris 8/10, Windows XP/2003/Vista, Visual Studio 6/2003/2005/2008, Sun Studio, WTL, STL, ATL, Oracle 9, perforce, AEP Keyper, Windows/Solaris admin, XML, PKI.

**Cochlear**, November 2006–January 2008, contract, Health, Mechelen/Malines, Belgium

Develop an emulator in C++ for a multi-core DSP to medical standards. Construct a Python GUI for programmers to use to develop their DSP code. Write test suite. Only developer in small hardware team. VC++ 2005, gcc 3.4, STL, boost 1.33.1, Python 2.3/2.4, SystemC, cygwin, perforce, PC Lint.

**Secure Wave SA**, May 2006–October 2006, contract, computer security Betrange, Luxembourg

Develop support products in C++. Debug core product. Design, implement multi-threading library (on ATL thread pool). Design, implement networked PC device scanner. Fix USB secure FAT filesystem. Medium team. VC++ 2003, STL, ATL, WTL, Platform SDK, Windows Shell, Lint, TCP/IP, multi-threading, VSS.

**Punch Graphix**, December 2005–March 2006, contract, manufacturing, Lier/Lierre, Belgium

Design & construct configuration manager for new industrial printers, using CAN Open, in C++ and C#. Small team. WinCE, C#, VC++ 2005, .NET, STL, boost, Windows Forms, XML, CAN Open, DCOM.

**Sortex**, April 2005–December 2005, fixed price contract, manufacturing, London

Port C++ Win CE app to new SBC to upgrade food sorting machine. Solo. WinCE, Embedded VC++ 4.0.

**Modgraph Consultants Ltd.**, weekends, 1997–2005, fixed price contracts, pharmaceutical, Welwyn, UK

Built and support middle layer for chemical registration system, using C++, DLLs and ActiveX controls. Small team. ATL, STL, COM, MFC, TCP/IP, DLLs, VC++ 6, VB6, GUI, ISAPI, HTML, Javascript, all MDL ISIS file formats, Oracle, PC Lint, boost.

**Symbian**, March–August 2004, contract, telecoms, IT, Cambridge

Construct installation application in Windows using C++. Small team. W2K, OpenSSL, VC++ .NET, STL, perforce.

**Cryptic Software Ltd.**, May 2001–January 2004, April 2005–November 2005, mixed, security, Kettering, UK

Design, build C++ client to monitor for security threats on Windows from 1995 to Vista, OS X, linux, solaris, BSD. Design, build C++ ActiveX control for server to communicate with clients. Design encrypted comms. protocol, to be reliable across poor quality networks. Solo. Windows CE 2.12 / 3.0 / CE .NET, VC++ 6 / .NET, embedded VC++ 3/4, CryptoPP, TCP/IP, sockets, Services, Platform SDK, ATL, STL, MFC, GUI, 2K3/XP/W2K/NT/9x/CE, multi-threading, real time, COM, DCOM, C, DDK, DLLs, Linux, Darwin, OS X, Open/Free/Net BSD, SuSE Linux, GNU C++ 2.9x, makefiles, shell programming, daemons, Java, HTML.

**Trafficmaster**, June 2000–March 2001, contract, telecoms, Milton Keynes, UK

Build robust multithreaded real time server. Medium team. NT4, W2K, IIS 4/5, SQL Server 7, DNS, PC Anywhere, Red Hat Linux, VC++ 6, Win32 SDK, STL, multithreading, ISAPI, TCP/IP, MFC, DCOM, COM, ATL, ASP, Perl.

**Cambridge Consultants Ltd.**, January–May 2000, contract, telecoms, Cambridge.

Finish C++ app to manage Nokia Eksos. Medium team. Nokia, Eksos, Q3 Stack, VC++, MFC, GUI, STL, Platform SDK, NT, Perl, Source Safe.

**Pi**, July–December 1999, contract, motor, Cambridge

Assist in construction of C++ track monitoring software for F1 team. Medium team. DCOM, MFC, Platform SDK, GUI, multithreading, NT/98, Source Safe, Office.

**Redstone Telecom PLC**, October 1997–June 1999, contract, telecoms, London

Redesign Redstone switch. Develop app for acquisition of Call Data Records. Design resilient app to send customer data to bespoke call-forwarding switches. Small team. MFC, VC++ 6.0, VB6, NT Services, DCOM, TCP/IP, Win32 SDK, multithreading, ISAPI, Nokia switches, MSMQ, MAPI, pipes, SQL Server 6.0, FTAM, Exchange 6.5, Perl.

*GlaxoWellcome, June 1996–October 1997, contract, pharmaceutical, Stevenage, UK*

Build pharmaceutical registration package middleware. Finish client. Medium team. Win 3.1, NT 3.51/4.0, VC++ 4/5, MFC, DLLs, DDE, TCP/IP, Win32 SDK, Oracle, ActiveX, VB4, TGF /MOL files, ISIS/Draw, SourceSafe.

*Dorling–Kindersley Multimedia, April 1994–May 1996, contract, multimedia, London*

Support construction of DK multimedia products. Large team. VC++ 1.5x, 2.x, 4.0, MFC, MS Test 1/2, screen saver, Windows Setup toolkit, OCX, SourceSafe, HTML.

*Andromeda Interactive, six months, deal, multimedia, Abingdon, UK*

Build a multimedia engine. Solo. Windows 3.1 SDK, VC++ 1.0.

*Xionics, six months, fixed contract, video hardware, London*

Build demo code for Windows 3.1 device driver for video card. Solo. C, Windows 3.1 SDK, DDK.

*Dorling–Kindersley Multimedia, a year, contract, multimedia, London*

Build C multimedia engine for Microsoft Musical Instruments. Small team. Msc, Win 3.1, Macromedia Director. Microsoft used the player in additional products.

*M.I.C.S., 2 years, contract, insurance, Ware, UK*

Build insurance products. Small team. PC Express, Win 3.1, Office, Visual Basic, OS/2.

*The Multi–Media Corporation, 6 months, permanent, multimedia, London*

Build multimedia sequencer in C. Small team. Win 3.0, Multimedia, msc, GUI, Commodore Amiga.

*Apricot PLC, August–November 1989, permanent, manufacturer, Birmingham*

Build new version of comms package. Medium team. TCP/IP, Win 2.1, msc.

*Inforem PLC, 2 years, permanent, IT, London*

Design & build GEM based methodology tool in Pascal. GEM, GUI, Win 2.0 SDK, Turbo Pascal.

*Software Experts Ltd., 15 months, permanent, training, Egham, UK*

Design and give technical training. Small team. Lattice C, GEM, GUI, DOS, Mac.

*Acorn, 1981 summer holiday job, Cambridge*

Complete 6502 assembler. Solo in small team. 6502 Assembler.

*Comart Computers, 1979–1980, sandwich layer of degree course, 1 year, St. Neots, UK*

Build bespoke invoice and stock control system. Solo. CP/M, Cromemco Basic, Z80 Assembler.

## — Business Experience —

*Corrupt Press Limited, 2011 onwards, founder and director, Scottish limited company*

A small poetry publisher: [www.corruptpress.net](http://www.corruptpress.net).

*wurm im apfel, Ireland, 2009, partnership*

Set up, organise and run many poetry activities, including avant-garde poetry festival noted above.

*Cyberspace Services Ltd., UK, 1993–2003, limited company*

One man company offering computing consultancy services. Standard UK contractor activity.

*DTTravel Ltd., UK, late 1990s, limited companies*

Set up, part funded, and acted as chairman of this small company.

## — Formal Education —

*Agile 42, Scrum Training: whilst working at Lumension*

*Trinity College, Dublin, October 2008–February 2009: Dutch evening classes*

*L'Alliance Française, Dublin, June 2008–April 2009: French evening classes*

*CVO, Mechelen, 2007: Dutch evening classes*

*Hochschule Bremen, July, August 2007: full time German*

*Thames Polytechnic (now University of Greenwich), 1978–1981: a 2:1 in Computing Science (CNA)*

*Bedford School: 9 O'Levels, A'Levels in Maths, Physics and Chemistry*

## — One More Thing —

I've five poetry books published. Two are combined poetry & photography. Ask for my Arts CV for details.

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