
Curriculum Vitae

Personal Information

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|----------------|---|-----------------------|--|
| Name | Nicholas H Adie | Phone | +44 (0) 1424 717 583 |
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| | | Web – Personal | www.nickadie.com |
| | | Web – Business | www.brokenmould.com |

Additional Information

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| Education | Blue Coat School, Birmingham | Church Boarding School |
| | Abbotsholme, Derbyshire | Independent Boarding School |
| | Greenmore College, Birmingham | Independent Boarding School |

Current CRB Certificate

Profile

An eminently skilled senior software developer, with excellent technical abilities and strong business acumen. Code written is effective, efficient, understandable and well documented; with every opportunity taken to use an object orientated and reuse approach during design and development.

A highly motivated, articulate self-starter, with extensive problem solving abilities, who willingly takes ownership of issues and assignments; achieving rapid understanding of complex business and technical issues.

In-depth experience of full project life cycle; including analysis, design, development, testing, training and implementation using either informal or formal techniques and methodologies such as Extreme, Scrum, Rational Rose and Summit. Has been involved in both 'Waterfall' and 'RAD' style projects.

Has many years experience in diverse commercial environments, taking responsibility for, or participation in, numerous successful development projects. These range from single-user and departmental applications through to enterprise wide, multi-team and high man-year projects.

Good inter-personal skills with, both, colleagues and users and able to provide mentoring support for less experienced peers including design and code reviews and walk-through. Is equally comfortable working alone or as a member of a team.

Has up-to-date fully equipped home office, Ethernet, ADSL and Video Conferencing. Hardware platforms include Windows 7, XP, 2000 desktops and laptops and range of VMWare supported Windows servers and workstation implementations. Linux (Debian) Servers and Workstations. Development software includes of all versions of Visual Basic and VB.NET 2008 as well as SQL Server 7/2000/2005/2008 IIS, MTS & COM+.

Technical Skills

Primary

- Classic VB 6 & VB 2008
 - Data Access – ADO & ADOX, OLEDB, ODBC, XML and JET
 - COM, COM+ and DCOM
 - ActiveX – Controls and Components Creation.
 - SQL Server 7, 2000 -> 2008 Design, T-SQL, DTS, Management & Deployment
 - ASP, HTML & CSS
 - Microsoft Office – 2000 -> 2007
 - Visual Source Safe
- Application Development**
- Access, Excel & Word VBA 97 -> 2007
 - OLE - Office Automation; Word, Excel, Access and Outlook
 - WinSock - SMTP, POP, FTP and Internet
 - Win32 – API & Networking
- Databases**
- Access – 2000 -> 2007
 - MySQL – 4.1, 5.0 & 5.1
 - DB2, Teradata & Sybase
- Web**
- IIS, MTS, COM+ & XML
- Other**
- CyberSource Credit Card API
 - PCCom & Attachmate 3270 API
 - TeleFax IMS API

Secondary

- Visual Basic 3, 4, 5
 - JavaScript & VBScript
 - Apache – 1.3, 2.0
 - Workflow – Staffware
 - Crystal Reports (4.5/7.0)
- Application Development**
- 'C', Windows & Linux
- Web**
- PHP, HTML, CGI
- Other**
- Scanning and Document Management – Hands & Eyes, Kofax Image and Storage, Xerox Imaging
 - Adobe Capture API

Operating Environments

- Workstations - 2000 / XP / Windows 7
- Servers – NT4/2000/2003
- Linux – Debian
- VMWare Viewer, Workstation & Server Windows & Linux

Business Area Knowledge

- Financial, Investment & Banking
- Insurance
- Government: National Health, Prison & Probation Services
- Software and Consulting
- Call Centre Management
- Property Management and Investment
- Publishing & Journalism
- Energy Supply and Distribution
- Document Imaging & Management
- Recruitment and Introduction Agencies
- Manufacturing and Distribution
- Pharmaceuticals and Health Care
- Customer Relationship Management
- Sales and Telesales Marketing

Recent Technical Training

Certification: 2010 SQL for Teradata

Summary of Professional Experience

Nov 2010 – July 2011

**Lloyds Banking Group Halifax - Bank of Scotland,
Customer Data Quality Group, Pudsey, Leeds, West Yorkshire**

Lloyds is the United Kingdom's largest retail bank. It consists of Lloyds, Trustee Savings Bank, Halifax and the Bank of Scotland.

Position

Senior Analyst Programmer

Job Description

I joined the Customer Data Quality Group as part of the team charged with correcting data quality issue within the HBOs Data Warehouses. These corrections being required prior to the integration into the Lloyds Group Data Warehouse.

Achievements

- ❑ Whilst waiting for Teradata training and access, I filled the roll of project and document manager, as well as the interface between Business Analysts and development for the Customer Auto Split project.
- ❑ Designed, developed and tested a series of scripts used to analyse Date of Birth data and generate batch update files, for the automatic correction of Dates of Birth where conflict existed between the Customer and Product Detail records. This included a series of Excel Applications to carryout automated regression testing for both development and UAT, as well as generating the update files for DB2 and Teradata. (Teradata, Fast Import and Export, SQL Assistant, Excel and Access VBA)
- ❑ Designed and built a set of testing scripts for the 'Surname, Generation Text and Name Suffix' conflict project together with Excel Application for automated regression testing. (Teradata, Fast Import and Export, SQL Assistant, Excel VBA)
- ❑ Developed a number of MI and Analysis reports using the Lloyds Teradata Group Data Warehouse. These ranged from simple data queries through to Excel Applications using ADODB to access the Warehouse.

Jul 2010 – Nov 2010

**Lloyds Banking Group, Lloyds TSB, Strategic Planning Group
Brighton, East Sussex**

Position

Senior Analyst Programmer

Job Description

Whilst working for HBOs, I was asked to join the Strategic Planning Group to provide them with development expertise for their Customer Relations Projects.

Achievements

- ❑ Developed Credit Card Charge Refund Calculator, for Lloyds TSB, Customer Relations Department, Brighton. This Excel based application calculated refunds and interest payable from credit card data from Teradata data extracts. (Excel VBA & Teradata datasets)
- ❑ Developed a number of 3270 (IBM PCCom) automation applications to streamline and automate repetitive tasks.(Excel VBA & IBM PCCom API)
- ❑ Developed Credit Card Refund Calculator, for Bank of Scotland, Customer Relations Department, Rosyth. This Excel based application calculated refunds and interest payable from mainframe data extracts. (Excel VBA)
- ❑ Developed Loan Insurance Refund Calculator (PPI), for Bank of Scotland, Customer Relations Department in Chester. This Excel application calculated loan insurance refunds and interest, extracting data using the Attachmate 3270 API. (Excel VBA & Attachmate 3270 API)
- ❑ Developing Loan Personal Protection Insurance Refund Calculator, for Halifax Loans, for the Customer Relations Department in Chester and Halifax. This Excel application calculated loan insurance refunds and interest, extracting data using the IBM PCCOM 3270 API. (Excel VBA & IBM PCI 3270 API)
- ❑ Developing Credit Card Personal Protection Insurance Refund Calculator, for Lloyds TSB, for the Customer Relations Department in Brighton. This Excel application calculated loan insurance refunds and interest, extracting data from a Web Interface. (Excel & VBA)

- Apr 2010 – Jun 2010** **Lloyds Banking Group, Halifax, Bank of Scotland, Management Information Team, Halifax, West Yorkshire**
- Position** **Senior Analyst Programmer**
- Job Description** I was contracted by HBoS to work within their Management Information Team in Halifax; to develop and automate a range of Excel based MI reports for the Customer Relationship Department.
- Achievements** Developed a series of MI reports, daily, weekly and monthly, using data from their 'Charter' SQL Server based, CRM system. Automated these to run unattended using the SQL Server job scheduler. (Excel VBA, SQL Server Stored Procedures)
- Developed a series of statistical analysis reports for the Forecasting and Planning, to aid in the scheduling of staffing requirements for the UK CRM call centres. (Excel VBA, SQL Server Stored Procedures)
- Oct 2009 – Mar 2010** **McGraw-Hill Group – Platts Information Services
20 Canada Square, Canary Wharf, London E14 5LH**
- Platts is the leading global provider of energy and metals information. They provide timely, relevant news and price assessments that create trade transparency and helps drive the energy and metals market efficiently.
- Position** **Consultant Developer**
- Job Description** Platts contracted me to design and develop a standalone Stringer (Freelance Journalist) invoicing application, designed to produce payment invoices and payment advices, from Story & Article information provided by the Platts Publication Editors.
- Achievements** Carried out design, development and testing of the Stringer Information System (SIS). Supported user testing and created a documentation suite consisting of User, Support, Testing and Technical guides.
- The main SIS application is a built to support the process or work flow of monthly invoice and payment advice production, reporting, enquiries as well as the database maintenance functions, for Products, Pricing, Exchange Rates, Stringers and Standing data etc. The remainder of the application consists of the following components written as DLL's or ActiveX controls. (VB6 & MS Access)
- Story Submissions:* Submission templates (Excel) are updated (standing data) by SIS and emailed to each Product Editor. When updated, off-line, without the need for network connectivity, they are returned providing the input data for SIS. Controls reports are created and emailed to the Editors, detailing the cost of each article. (VB6 & MS Excel)
- Pricing Engine:* The pricing engine calculates the value, to the Stringer, of each of their original articles and re-prints, taking into account Product rates, Stringer uplifts, Retainers, Product and Payment currency. The database stores and internally reports all values in US Dollars. (VB6)
- Invoice Production:* Invoices are created, each invoice line representing each story/article and the Product in which it was published; invoices reflecting the Stringer payment currency. Invoices are distributed to the Stringers by email. (VB6, MS Excel & PDFCreator)
- Payment Advices:* Accounts Payable receive the Pay Advices by email, these reflect the Invoices with regards to value but each line represents each Product and the associated accounting information. (VB6, MS Excel & PDFCreator)
- Document Emailing:* As 95% of SIS document distribution is to remote locations email is used. The email DLL was built to distribute mail including attachments via SMTP using The Windows API. (VB6, DLL & ActiveX Controls)
- Document Management:* All documents whether imported or created are

stored in a document management repository, for audit, printing and redistribution purposes. (VB6, DLL & ActiveX Controls)

- ❑ *PDFCreator*: A module was developed to encapsulate the Open Source PDFCreator & Ghost Script functionality, required to automate the creation of PDF Documents from MS Excel, Word and Access, for emailing and for storing in the repository.

Jun 2009 – Jul 2009

**Travelex Limited
Peterborough, Cambridgeshire**

The Travelex Group provide currency and financial services globally to both the private individual and commercial organisation. Their business includes; Retail Travel Money, Commercial Foreign Exchange, Pre-Paid Debit Cards, Banknote Outsourcing, Travel Insurance, E-commerce Services, Foreign Coin Services, Travellers Cheques & ATMs. In the UK their clients include HSBC, NatWest, HBOS, Nationwide, Asda, Tesco and Saga.

Position

Consultant Developer

Job Description

Travelex asked me to provide Consultancy and Development on a time and material basis to update the CCI Application and develop an ASP bases Card Payment Refund Application. This enhanced the original work carried out 2007-2008.

Achievements

- ❑ Amended the (CCI) Credit Card authorisation application server tier to use the Cybersource PCI compliant Subscription Services to enable Credit Card Payment Refunds via a new ASP based application. (VB6, COM+, XML)
- ❑ Developed a server tier module to support the CCI Credit Card Payment Refund Application. (VB6, COM+, XML)
- ❑ Developed an ASP based application to interact with the server side COM+ component to provide a Credit Card Refund Gateway.
- ❑ Updated the following system documentation; Technical Design, Developers API Programming Guide, XML Schema Guide, CCI Support Guide and CCI Installation, Integration Guide and CCI Reporting Installation and Support Guide as required.

Oct 2008 – Jun 2009

**ACE Insurance Group
High Street, Crawley, Surrey**

The ACE Insurance Group is a leading global commercial property and casualty insurance and reinsurance company. ACE has operations in more than 50 countries and conducts business with clients from over 140 countries.

Position

Senior Analyst Programmer

Job Description

I am currently under contracted to ACE as a member of their development and maintenance team, providing Visual Basic 6 Analysis and Programming skills.

Achievements

- ❑ Developed, documented and implemented new functionality for their Apollo Workflow and Document Management Application, both Unicode & non-Unicode versions. Scripted database changes and stored procedures. (VB6, VSS, MSWord & DB2[AIX])
- ❑ Whilst wholly responsible for the Asia Pacific implementation, developed, documented and implemented code fixes to the Unicode version of the Apollo Workflow and Document Management Application. Including providing 'break-fixes' for current and historic versions. Scripted database changes and stored procedures. (VB6, VSS & DB2[AIX])
- ❑ Developed, documented and created a PDF Printer Driver incorporating, Adobe PostScript Printer Driver, RedMon and GhostScript for PostScript to PDF Conversion as both a Stand-alone Printer and for integration within the Apollo Application. Built a 'silent installer' for the driver and support modules. (VB6, VSS, Adobe, RedMon and GhostScript)

Aug 2008 – Oct 2008 **EDF Energy
Newington House, London SE1**

EDF Energy is one of the leading energy suppliers in the UK.

Position **Analyst Programmer**

Job Description I was contracted by EDF to provide Analyst/Programmer skills, for the creation of an Energy Price Change application.

Achievements Wrote the Detailed Design Specification document from the High Level Design and user requirement analysis.
 Completed the building of the Graphical User Interface and the underlying application code framework. (VB.NET 2005)
 Created code generation template wizards for outputting 'boiler plated' patterned VB.NET code.
 Worked with Database Designer to complete the database design and build the same. (SQL Server 2005)
 Worked with the testing team to create the application test plans.
 Carried out handover to offshore development team.

Jun 2008 – Jul 2008 **Office of National Statistics, Newport, Gwent**

The Office of National Statistics gathers and publishes the UK's National Statistics.

Position **Technical Team Leader**

Job Description I was contracted by ONS as the Technical Team leader for two support and development teams, containing 12 developers.

The project was cancelled in July 2008 due to funding problems.

Nov 2007 – May 2008 **Travelex Limited
Peterborough, Cambridgeshire**

The Travelex Group provide currency and financial services globally to both the private individual and commercial organisation. Their business includes; Retail Travel Money, Commercial Foreign Exchange, Pre-Paid Debit Cards, Banknote Outsourcing, Travel Insurance, E-commerce Services, Foreign Coin Services, Travellers Cheques & ATMs. In the UK their clients include HSBC, NatWest, HBOS, Nationwide, Asda, Tesco and Saga.

Position **Consultant Developer**

Job Description I was contracted by Travelex to provide design, development and system architectural skills, both hardware and software, for the creation and deployment of the middle and back-end tiers of a new, high availability, global Credit Card authorisation system (CCi) using the CyberSource API together with the Visa and MasterCard 3D Secure Services.

Achievements Designed the middle & back-end tiers using the [CyberSource API](#) and Services as well as the API interface for the company's existing Application and documented the same. XML being used for data transport.
 Worked with the Server Group to develop the high level hardware and infrastructure requirements in order to deploy, clustered application and database servers, to satisfy the high availability requirements of the project.
 Designed the SQL Server database schema, using standard normalisation techniques, particular emphasis being placed on PCI data compliance.
 Implemented the SQL Server schema on under SQL Server 2000 (testing) and 2005 (live).

- ❑ Developed the back-end CCI components using Classic Visual Basic 6 for deployment under Component Services (COM+) on 2003 Servers. Intra component communication was carried out using HTTP and XML. Data access was carried out using ADODB.
- ❑ Developed a number of CCI middle tier components, using VB6 & VB.NET 2005, the component variants were developed to be deployed, under COM+ and MTS on NT4 and 2003 Web Servers and as ActiveX components for deployment with 'Thick Clients' applications on NT4, 2000 and XP workstations. Middle and back-end tier communication was carried-out using HTTP and XML.
- ❑ Developed a COM based unit and integration regression testing scripts using the open source [COMUnit](#) testing application. Additionally developed an ASP front-end to carry out COM+ unit and integration testing. Implemented 3D Secure testing within both environments.
- ❑ Created multiple environments by the deployment of CCI components and databases for use by the global development groups, for development, testing, UAT and finally the 'live' environments. UAT and Live deployments were to clustered server environments.
- ❑ Worked with and provided development and integration support to the global development groups in the UK, Canada, Australia and India.
- ❑ Wrote and published the following system documentation; Technical Design, Developers API Programming Guide, XML Schema Guide, CCI Support Guide and CCI Installation, Integration Guide and CCI Reporting Installation and Support Guide.

Oct 2006 – Nov 2007

**McGraw-Hill Group - Standard & Poor's,
20 Canada Square, Canary Wharf, London E14 5LH**

Standard & Poor's is a leading provider of financial market intelligence and world's foremost source of credit ratings, indices, investment research, risk evaluation and data, Standard & Poor's provides financial decision-makers with the intelligence they need to feel confident about their decisions.

Position**Senior Developer****Job Description**

I was contracted by S&P to join the Structured Finance (SF) IT Team, to support and develop Visual Basic 6, Access and Excel VBA based applications. With primary responsibility for the Access Front-End (SFDeals) for the companies Surveillance, Rating, Tracking & Reporting Database.

Achievements

- ❑ Carried out a major revision to the SFDeals application. Created a set of GUI standards. Redesigned all the applications forms, implementing the agreed GUI standards, which included the replacement of all ListBoxes with ListViews, standardisation of fonts, colours and control size and position. Carried out a complete code review and rework; using generic routines, function and classes, removing code duplication as appropriate. Replaced both dynamic & static SQL, as required, with Stored Procedure or Parameterised Queries, as appropriate. (Access VBA & SQL Server 2000)
- ❑ Whilst the revision was being undertaken, continued to carry out maintenance to original version of SFDeals, rolling forward all fixes to new version.
- ❑ Developed and implemented XML data feeds to third party, converting from CSV file output. (VBA)
- ❑ Created a FTP Client using Windows API for implementation in VBA Applications and as a VB6 COM object. (VBA, VB6 & COM)
- ❑ Created a SMTP Client using Windows API for implementation in VBA Applications and as a VB6 COM object. (Access VBA, VB6 & COM)
- ❑ Implemented the FTP Client for process automation within an Access application. (Access VBA)
- ❑ Implemented the SMTP Client replacing Outlook Automation within an Excel application. (Excel VBA)
- ❑ Carried out support and enhancements across a number of Access & Excel VBA Applications. (Excel & Access VBA)

Jul 2006 – Oct 2006

**Elision Limited,
Enfield, Middlesex**

Elision provides consultancy services, systems integration and managed service solutions they specialise in the modernisation of large-scale, complex paper-based processes. Provide systems process design and management, electronic capture (scanning) and the design and management of supporting networks and applications.

Clients include; HM Government, Barclays Bank, easyJet and a number of County Councils.

Position**Consultant, Developer & Systems Engineer****Job Description**

I was contracted by Elision to provide development, technical support and account management skills for a number of their clients acquired during the takeover of syDoc Limited, whilst the training and recruitment of permanent staff was carried out. Additionally was charged with creating and maintaining a series of VMWare based servers used to support each of their client's sites.

Achievements

- ❑ Successful managed the transition of a number of clients from syDoc to Elision, including easyJet, Bedford & Devon County Council, AT&T (New Jersey) and Woolwich/Barclays Bank.
- ❑ Carried out maintenance on a number applications used on client sites to provide services to Ascent Capture Document Imaging. (VB.NET 2005 & VB6)
- ❑ Provide SQL Server support to AT&T, including developing T-SQL scripts & DTS Packages. (T-SQL, DTS SQL Server 2000)
- ❑ Installed and tested new Scanning Hardware at easyJet's Head Office at Luton Airport.
- ❑ Assisted Barclays/Woolwich with a Server replacement project, documented original Kofax installation and installed and configured the same on the new servers. (Ascent Capture)
- ❑ Created and tested a number of Ascent Capture Batch Classes for Bedford County Council, easyJet and Devon County Council. (Ascent Capture)
- ❑ Built an inventory of WMWare Servers & Workstations 'primary installs' to be used to clone test environments. (VMWare Workstation & Server)
- ❑ Built a number of VMWare Test Servers for various migration projects including: Isle of Man Government, AT&T & Barclays. Installed Ascent Capture, SQL Server 2000 and DocPACT.

Jun 2006

**Document Solutions, Bradford, West Yorkshire &
Mouselink Limited, Leeds, West Yorkshire**

Document Solutions are an Office Equipment and Consumables Telesales organisation.

Position**Developer****Job Description**

I was contracted by Mouselink to work on their client site; Document Solutions Limited to develop and enhance several areas of their telesales and marketing systems.

Achievements

- ❑ Designed, developed and tested a Marketing Campaign Wizard which is used to create marketing campaigns. This application selected groups of customers by several criteria, created activity lists (emails, letters, calls & visits) by added actions to the telesales workflow. (VB.NET 2005, SQL Server 2005 & T-SQL)

Mar 2006 – May 2006**National Probation Directorate,
Horseferry House, Dean Ryle Street. London. SW1P 2AW**

The NPD is a part of the Home Office; the directorate is the principle interface between it and the Probation Services as well as other criminal justice services such as the Prison Service.

Position**Consultant Developer****Job Description**

I was contracted by The NPD to provide support and maintenance expertise for their National Workload Measurement Tools, whilst application support responsibilities were outsourced to a third party.

Achievements

- To support, maintain and ongoing development of the WMT application. (VBA, Access XP and Office XP)
- To upgrade the application from Access 2000 to Access 2002.
- To develop a new windows application installation package.
- To develop a prototype framework for application replacement. (VB.NET)
- Successfully transferred technical knowledge and application software and documentation to third party for and on behalf of the NPD.

Jul 2005 – Feb 2006**Thomas Miller,
Creechurch Lane, London EC3 5BA**

The Thomas Miller Group specialises in the management of mutual, captive and other specialist insurance companies. Its global organisation offers clients a diverse range of skills and specialists who are able encompass all aspects of insurance, risk and investment management.

Position**Senior Analyst Programmer****Job Description**

I was contracted by Thomas Miller, as a member of their team, committed to the development of a new underwriting system for The Transport and Trading Club (TT Club). In particular I was charged with the development of all aspects of the applications security model and the approval workflow.

Hardware

PC's: Windows XP. Database: DB2 (AS/400)

Achievements

- I was responsible for developed and unit testing of the user security and authority modules for the new system. The modules were developed as to control both the security of the application and access to the underlying data. Authorisation and access being controlled at an individual level, via their team membership, their assigned roles and their approval level. (VB6, ADO, XML, ASP, COM+, & DB2 [AS/400])
- I developed and unit tested of the workflow process approval modules. These modules controlled the business approval processes, which was driven by the need to have key processes controlled and as required, approved and reported upon. (VB6, ADO, COM+, XML, ASP & DB2 [AS/400])
- Additionally I designed, developed and tested a number of reusable components for use in the new application. (VB6, ActiveX Controls and DLL's)

| Employment History | | |
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| Feb 2005 – May 2005 - Contract [Concurrent] | Gardener Books Limited [UK's Leading book wholesaler and distributor] | Senior Analyst Programmer |
| Jan 2005 – Mar 2005 - Contract [Concurrent] | HM Prison Service | Consultant Developer |
| Jul 2004 – Feb 2005 - Contract | London Metal Exchange [Metals and Plastics Trading Exchange] | Senior Analyst Programmer |
| Feb 2004 – Jul 2004 - Contract | Glass's Information Services [Vehicle Information Systems] | Analyst Programmer |
| Jul 2003 – Feb 2004 - Contract | IMS Hospital Group [Medical Information Company] | Architect, Technical Team Leader and Developer |
| Apr 2003 – Jul 2003 - Contract | National Health Service, CFSMS Trust [NHS Fraud Investigation Group] | Senior Analyst Programmer |
| Nov 2002 – Feb 2003 - Contract | SAS Institute, formally Intrinsic Limited [CRM Software House] | Senior Analyst Programmer |
| Mar 2002 – Jul 2002 - Contract | Sitel Limited [Call Centre Management Company] | Senior Analyst Programmer |
| Sep 2001 – Feb 2002 - Contract | Pfizer Limited [Pharmaceutical Company] | System Integrator and Developer |
| Aug 2001 – Sep 2001 - Contract | Enron Europe Limited [Energy Commodity Traders] | Technical Specialist [Imaging] |
| Jun 2001 – Aug 2001 - Contract | Fords of Winsford [Motor Vehicle Retailer] | Project Leader |
| Mar 2001 – Apr 2001 - Contract | Warrior Financial Services Group [Financial Services] | Senior Analyst Programmer |
| Jun 2000 – Feb 2001 - Permanent | Intrinsic Limited [CRM Software House] | Senior Analyst Programmer |
| Feb 2000 – May 2000 - Permanent | MSB International PLC [Recruitment Consultants] | Senior Analyst Programmer |
| Apr 1998 – Dec 1999 - Permanent | DAT Enterprises Limited [Software House] | Principal Consultant |
| Nov 1993 – Apr 1998 - Permanent | Fidelity Investments Limited [International Investment Management Company] | Senior Analyst Programmer |
| Feb 1993 – Oct 1993 - Permanent | Gestetner Management Services Limited [Distributors of Photocopying and Photographic equipment] | Senior Analyst Programmer |
| Nov 1990 - Dec 1992 - Permanent | Credit Suisse/ Citymax Limited [Software House – Brokerage Systems] | Senior Consultant |
| Jul 1988 - Sep 1990 - Permanent | Sun Alliance Property Group [Property Arm of Sun Alliance Insurance] | Systems Controller |
| Jun 1985 - Jun 1988 - Contract | Shell International Company Limited [International Oil, Chemical and Transport Company.] | Project Leader & Developer |
| Nov 1983 - May 1985 - Permanent | Wordplex Limited [Word Processing and Personal Computer Manufacturer and Distributor] | Data Processing Manager |
| May 1983 - Nov 1983 - Permanent | Pfizer/Howmedica Limited [Medial Prosthesis Manufacturer] | Senior Analyst Programmer |
| Sep 1980 - Apr 1983 - Permanent | AGA Navigation Aids Limited [Manufacturers and Distributors of Maritime Navigation Aids] | Systems Analyst |