**Wayne Morris Johnson, M. Sc**

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# EDUCATION

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| --- | --- | --- |
| MCTS_2013(rgb)_1098 | MCTS(rgb)_512_513 | MCSD(rgb) |

AUG’14 Programming in C# (Microsoft Specialist, 70-483)

OCT'93 - OCT'94: University of Hertfordshire. **Masters Degree:** Computer Science.

**Subjects**: Database design, Computer systems development, Computer Architecture, Software Engineering, Project management, Knowledge based AI systems, Neural Networks, Programming languages.

OCT'80 - JUNE'83: University of Birmingham. **Joint Honours Degree**: Electronic Eng. and Physics (2.2)

1973 – 1980: John Newnham School, Lanfranc School, Croydon

**4 A' Levels**: Physics (A), Maths (A) with distinction, F. Maths (B), T.D.(B)

**11 O' Levels**: including English(C) and French(C).

## SKILL SET SUMMARY

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| **Description** | **Total Duration of**  **Experience (years)** |
| Microsoft Visual C# and ASP.NET on .NET Frameworks 1.1/2.0/3.5/4 | 12 |
| C# Programming | 12 |
| .NET Framework 3.5/4 WPF | 2 |
| Microsoft Azure | 1.5 |
| Microsoft MVC 4.0,5.0 | 2.5 |
| Java | 0.25 |
| Xamarin | 0.25 |
| HTML (DOM) & Javascript | 2 |
| Microsoft SQL Server | 5 |
| Entity Framework V4.0 | 1 |
| Linq-to-SQL | 1.5 |
| DXperience v2010 Vol 2, WPF 13.1 | 1 |
| Technical leadership (including managing the complete project life cycle) | 4 |
| Agile methodology using Scrum | 3.5 |
| Visual C++ / MFC | 7.5 |
| C++ / C Programming | 9.5 |
| Microsoft Office Program Development (including Visio) | 2 |
| Ration Unified Process using Rational Rose 98 and UML (RUP) | 2 |
| NUnit Test Driven Development | 2 |
| XML/XSLT | 0.5 |
| Visual Basic | 2.5 |
| COM Development using Visual C++ and ATL | 2.5 |
| Documentum’s EDS 98 | 1.5 |
| Assembler (RCA 1802, ASM 8051, ASM 8086) | 5 |
| RMX51, PL/M51, PL/M86 and Assembler (ASM 8051, ASM 8086) Programming | 3 |
| Analogue & Digital Circuit design | 4 |
| Technical Documentation | 6 |
| Tortoise SVN | 1.5 |

**EMPLOYMENT HISTORY**

Sept’17 – Dec’17 Position: Senior .NET Developer

**Company**: Autotask (UK) Limited, Eaton Mews, Badminton Court, Church Street, Amersham, Buckinghamshire, HP7 0DD

**Business**: Remote Monitoring and Management of computers

**Projects: Agent for Autotask Endpoint Management:** A C# / F# / C++ .NET application for remotely managing Windows, Unix, and Apple computers. Tools used were Visual Studio 2015 and GIT**.**

Jan’17 – July’17 Position: Senior Software Developer

**Company**: PSI, Archway House, The Lanterns, Melbourne Street, Royston, Hertfordshire. SG8 7BX

**Business**: Software House

**Projects: Atlas Market:** A C#, MVC5 new front end for the Atlas Cloud, together with a mobile application developed with Xamarin and Visual Studio 2015.

**Atlas Cloud:** A Java web application for authoring and running assessments. Developed a new feature that exported questions to OOXML(.docx) file, which involved Freemarker template engine, dependency inversion and the Bootstrap framework. Also fixed bugs, which also involved Spring and MyBatis frameworks.

Nov’15 – Dec’16 Position: Senior Software Developer

**Company**: F2X Group, Welbeck House, Spitfire Close, Ermine Business Park, Huntingdon, PE29 6XY

**Business**: Insurance

**Projects: Instanda:** A C#, MVC5 application for defining and hosting web sites for purchasing insurance policies. It allowed the web sites to be maintained by users with no programming skills. The MVC5 application was hosted on Azure. Gained familiarity with both the old and new Azure Portal, and setting up VMs and WebApps. Debugged and added new features to Instanda, which included developing the UI using JavaScript and HTML5. 8 people in the team, 5 of which were developers. TortoiseSVN was used for source control.

July ‘13 – April’14 Position (contract): Senior Software Developer

**Company**: Peugeot Citroën Automobiles UK Ltd, Pinley House, 2 Sunbeam Way, Coventry, CV3 1ND

**Business**: Automobile Manufacture

**Projects: Olympia Client:** A WPF application for improving work processes at dealerships. Developed using C#, VS 2012, DevExpress 13.1, MS SQL Compact 3.5, MS SQL Server 2012 and MS Synchronization 2.1. TortoiseSVN was used for source control.

Jan ‘13 – April ’13 Position (contract): Senior Software Developer

**Company**: Environmental Business Products, 26 Chase Road, Park Royal, London, NW10 6BB

**Business**: Printer cartridges remanufacture

**Projects: Helpful Printer Driver:** A WPF/Winform application for estimating the ink levels of HP cartridges. Developed using C#, VS 2012, and MS SQL Compact 4.0. Also had involvement with CruiseControl. GIT was used for source control.

Sept ‘11 – Nov ‘11 Position (contract): Lead Information Business Developer

**Company**: AVC Wireless Networks Limited, AVC House, Bessemer Drive, Stevenage, Hertfordshire. SG1 2DT

**Business**: Global Services

**Projects: System Information Dashboards & SSRS Reports:** Using VS 2010, and MS SQL’s Report Builder 3.0. Also developed a WinForm Dashboard application for a MS Dynamics installation, using .NET 4.0, and Entity Framework V4.0.

Oct ‘10 – Jan ‘11 Position: Senior .NET Developer

**Company**: Speedwell Weather Derivatives Ltd, Mardell House, Vaughan Road, Harpenden, Herts. AL5 4HU

**Business**: Financial Software House

**Projects: Speedwell Weather System, Oasis Desktop V7.0:** This is a WinForm, .NET 3.5 Framework application for pricing weather derivatives, managing risk, managing the back office process and assessing the client’s weather exposure. It had a MS 2008 SQL Server backend that was accessed by inline T-SQL queries. Stored procedures were considered too intrusive for some customers. VS2010 was used together with the DXperience v2010 Vol 2 (DevExpress WinForm controls). I was tasked with providing the technical lead with the upgrade of Oasis Desktop application’s UI by replacing its Windows Controls with the more up to date DevExpress equivalents.

July ‘06 – Dec ‘09 Position: Senior Software Developer

**Company**: Questionmark Computing Limited, 4th Floor, Hill House, Highgate Hill, London, N19 5NA

**Business**: Software House

**Projects: BESTT Project:** Using the Agile methodology with daily Scrum meetings, I provided the technical lead within a large team in the design and implementation of Questionmark’s flagship product code named BESTT, which was an updated version of the popular V4.2 Perception system for the authoring, delivering and marking of computerised assessments. It had a three tier architecture that included an ASP.NET Web Service for accessing the business layer back end, which I spent most of my time on. It was strongly object oriented and built on a daily basis using Cruise Control, which automatically ran and logged the results of NUnit tests. All the developers including myself helped write the NUnit tests. I was involved in the Release management of the first version and used the following as part of its development: Perforce V4.0, UML 2.0, VS 2005, .NET2.0, C#, MS SQL Server 2005 and Oracle (9i, 10g & 11g). I also mentored the junior Developer and guided the Contractors within the team.

**Perception Assessment Management System:** Helped develop the AICC/LMS Integration capability of Perception V4.2, using AICC Documentation, VS 2002, C#, .NET1.1 and ASP.NET.

Nov ‘05 – June ‘06 Position: Product Developer Technical Lead **(Contractor)**

**Company**: Avaya, 15-21 Mundels, Welwyn Garden City, Hertfordshire, AL7 1LZ

**Business**: Telecommunications

**Project: IP Office Administrator’s PC Software Package V5.2:** This was a Winform application called Manager, which was used to set Avaya’s IP Office telephony system. It is written in C# and Managed C++, and developed using Visual Studio 2005. Its architecture was strongly object oriented. My involvement was mostly to do with the application’s infrastructure used for validating the system’s configuration, which consisted of hundreds of items.

Jan’ 05 – Apr ’05 Position: Software Engineer

**Company**: Beacon Computer Technology Ltd, 43 Clifton Road, Cambridge, Cambridgeshire. CB1 7ED

**Business**: Software House

**Project: Atomic Weapons Establishment project**: This involved designing a prototype, Object Oriented database application within a reusable framework using **UML** and MS Visual Modeller. It was implemented using VB.NET and ASP.NET with Visual Studio 2003. It consisted of Web Services, Remotable objects and an MSI package for installing it.

Dec’ '03 – Nov ‘04: Position: Senior Software Engineer

**Company**: Context Ltd, Grand Union House, 20 Kentish Town Road, London, NW1 9NR

**Business**: Electronic Publishing of legal material.

**Project:**  ‘**www.justis.com’ Web Application:** This site provides legal documentation and search facilities. During upgrading of this ISAPI VC++ MFC application, I worked on the new Authentication module, which was in C#, ASP.NET. Also, I restructured the ISAPI application to output XML and to use external XSLT files to transform this into HTML. This effectively separated the HTML page definition from the application, thus allowing Web designers to change HTML page output without having to get involved with C++ code. This made the ISAPI application a purely middle tier component, and the presentation layer XSLT controlled.

Jan ‘03 – Dec’ '03: Recession - searching for employment (Studied for MCAD - See Education section above).

Nov ’02 – Jan ‘03: Position: Senior Software Engineer

**Company**: Group 1 Software Europe Ltd, 2 Siskin House, Watford, WD18 8UE

**Business**: Development of Document Print Systems

**Project: Printer Driver:** Debugging task using Visual Studio 2002, Managed C++.

Sept’ '97 – Nov ‘02: Position: Senior Software Engineer

**Company**: Xerox Ltd, Bessemer Road, Welwyn Garden City, Hertfordshire, AL7 1HE

**Business**: Development of Document Management Systems

**Projects: Data Exchange Filters (1.5 yr as Technical Lead):** The Data Exchange System was used to translate files of various formats from one language to another. Each filter was in the form of a COM DLL, and provided an interface between the system and the file to be translated, where each supported file type had a specialised filter. We were tasked to develop eight filters using Visual C++ V6.0, MFC & ATL. I provided the technical lead in an international team of eight at its height (2 developers in England, 3 in Ireland and 3 in Shanghai, China) This involved writing Project Management documentation at SEI CMM, Level 2 standard, critically appraising the design documentation of the other team members, ensuring that their designs meet customer’s requirements and advising on improvement when necessary, and coordinating the team with the extensive use of e-mail and telephone conferences. On the side, I also developed the COM filter for the MS Word file format using the MS Word 2000 word processor application via COM Automation. Visual Sourcesafe 6.0 was used for configuration management.

**Formalities (1 yr):** As part of a computerisation feasibility study for the British Patent Office’s Formalities department, we were required to develop a prototype HTML intranet system based on Documentum’s EDMS 98 with a MS SQL Server backend, via Documentum’s RightSite 98 portal. The portal consisted of HTML templates used for the dynamic creation of HTML pages. In this three-man team, I created most of the templates and their associated JavaScripts, and also the supporting VB scripts used within the Documentum Server. I also provided customer-facing support during the final testing and evaluation stage.

**Avon (1 yr):** This involved a four-man team to developa PC based system for processing cosmetics order forms. The order details were uploaded to an IBM 9121 Mainframe legacy system via an MS SNA Server V4.0 interface. I wrote a design document for the interface application that was reviewed and approved by my peers. I then used Visual C++ V5.0 with MFC, MS SNA Server 4.0 and MS SNA Server SDK to develop the application. I closely collaborated with my other team members who developed the rest of the system. The satisfaction rating of both my team members and the customer for my application earned me an Achievement Award.

**IBIS (0.5 yr):** This involved developing a program for processing Trade Mark registration applications for the British Patent Office. As part of a three-man team, I design the Print subsystem in **UML** using Rational Rose 98. VB V5.0 was used to implement the design. I was also involved in writing some of the SEI CMM Project Management documentation. Rational’s Clearcase was used for configuration management.

**Adobe Acrobat Exchange Plug-in development (0.5 yr):** This one-man project involved creating a plug-in for the Acrobat Exchange application using Adobe’s Acrobat SDK. The plug-in analysed the colours of all the loaded documents within the application, and created another PDF file containing a list of the colours they contained. This information was required for printer set-ups.

**Awards:** Achievement Award for the Avon Project. (28th January 2000).

**Courses:** Java for C/C++ Programmers (2002),Business Analysis using UML (2001), Project Management Skills (1999), Windows 2000 Technology Overview (1999), Supporting SNA Server V4.0 (1999, MS Approved), Documentum Customising Client Applications (1998), SEI CMM (1998), Employee ship (1997).

Nov '95 - Sept’ '97 Position: Senior Software Engineer

**Company**: Auriga Communications Ltd, Hicks Rd, Markyate, Luton, AL3 8LQ

**Business**: Development of vehicle dispatch computer systems for taxi companies

**Projects**: **Design of the Dispatch system upgrade to MS Windows:** Auriga’s legacy system was an MS-DOS application written in Pascal. It was decided to develop a more modern, MS Windows version of the system. I wrote a discussion document on the subject, and proposed its relational DB design. This involved many client-facing and internal meetings.

**MS Windows Data Analysis Application:** The legacy dispatch system created huge amounts of data about ordered journeys. As part of the department’s familiarisation of MS Windows programming, I was given the task to develop a data processing application for the ordered journeys data, which was required to display the results using Crystal Reports. The deployment program was produced using Installshield.

**Developed a Reports Generator in Pascal:** This was an MS-DOS version of the application described above. It was developed usingBorland Pascal and a Pascal DB Toolkit. The finished application was deployed at customer sites and was widely acclaimed.

**Provided support for the Dispatch system:** General debugging and trouble shooting duties.

Development of a new MS Windows based, dispatch system. This involved using Visual C++, MFC and MS Access.

March '95 - Nov '95 Position: Senior software engineer

**Company:**  Nemco Ltd, Campus 5, Letchworth, Hertfordshire, SG6 2TS

**Business:** Design and manufacture of radio alarms and heat cyclers.

**Duties:** Developing 68HC11 embedded system in C.

Developed both the hardware and software for the Progene Heat Cycler. The program was written in C.

Nov '94 - Jan '95 Position: Contract software engineer

**Company:**  Cyfas-Restbury International Ltd, 11 Albone Way, Biggleswade, Bedfordshire

**Business:** Design and manufacture of communication equipment.

**Duties:** Developing C++ DOS program using Borland C++ V4.0.

Assisted in the development of a program for a PC controlled, telephone exchange.

Oct ’93 – Oct ‘94: University of Hertfordshire (Career change to Systems Programming. See Education section above.)

Jan ‘91 – Sept ‘93: Recession – searching for employment.

July '90 – Dec '90 Position: Senior software engineer.

**Company:** Insight Terminals LTD, 106B Bedford Road, Wooton, Bedfordshire.

**Business:** Design and manufacture of computer terminals.

**Duties:** Developed firmware for VIP 7600 emulation terminals.

June '88 – June '90 CONTRACT WORK

**Company:** Domino Amjet LTD, Norman Park, Bar Hill, Cambridge

**Business:** Design and manufacture of ink jet printers.

**Duties:** RMX51, PL/M51 and ASM51 programming.

**Projects:** The first six months of this contract I spent debugging customised firmware for ink jet printers. I was then moved on to the XT4 project where I had to correct design faults of the printer. This involved debugging software, developing and designing operating algorithms and designing experiments to isolate operating faults. All printer worked by producing a continuous stream of ink droplets that were synchronised with the electronics. This allowed droplets to be electrostatically defected away from the gutter and onto the media. The extent of the deflection varied between drops to form characters defined using a proprietary RIP technique.

Aug '85 – June '88 Position: Development engineer.

**Company:**  Marconi Instruments PLC, Six Hills Way, Stevenage, Herts.

**Business:**  Design and manufacture of instruments.

**Duties:** Development Engineer in both hardware and software using In-Circuit Emulators and symbolic debugging tools

**Projects:** i) Designed a calling tone analysis instrument that used a zero crossing technique to determine the frequency and duration of the calling tone pulses. This involved TTL/CMOS digital circuits and analogue circuits design, and PL/M/ASM programming.

ii) Designed and developed a software interface for the P981 GPIB.

iii) Designed and developed the PCB used at the front end of 2023 signal generator which was the flag ship the company's product range. The board was made up of an Intel 8051, super-twist LCD, 1330 Epson graphics controller, numerical keypad and a communication link to the 80188 based main board. I also designed the communication link.

Aug '83 – Aug '85 Position: Systems Engineer.

**Company:** Bell Electronics Ltd, Eastern Road, Aldershot, Hampshire.

**Business:** Underwater Acoustics.

**Duties:** Developed the RCA 1802 based Acoustic Water Current Meter, involving CMOS digital circuit and analogue circuit design