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# PERSONAL PROFILE.

I have been working as a software engineer for the past 16 years I have extensive experience in full life cycle development, project management agile and prince 2 and have repeatedly shown excellent skills in analyzing and developing solutions for complex and business critical problems. I would class myself as an expert in communications technologies specialising in IP based communications and have designed, developed and implemented solutions for high volume processing on multiservice, multi redundant systems.

I train in multiple martial arts and have also been a volunteer instructor for GKR karate.

# CAREER HISTORY.

Code Solutions Limited (June 2014 – Present) - Director

**Contracts**

**PHM (April 2015 - October 2015)**

**I was initially taken on for the first 3 months of this project to act as System architect and recruit a team to produce there first in house software project. Which consisted of a complete system CMS and cross plat form mobile applications to replace their existing sales tools used my major car companies.**

* **System analysis**
* **Design and technical lead of the new version of their software.**
* **Scrum master.**
* **C#(win forms) Application to design and dynamic content for mobile devices and compile it to a format that allow a view to be created on a mobile device at runtime.**
* **Xamarin development for tablet and phone using forms, complex custom renders, dependency injection, dynamically generated runtime content, SQLite and 3rd party SDK integration.**

**Kallidus (January 2015 - March 2015)**

**Conversion of their existing native iOS and Android training applications to cross platform native Xamarin. Then to bring a couple of their existing C# programmers up to speed on cross platform development.**

* **Recreation of their existing application, including design and functional improvements.**
* **Upskilling of existing C# developers.**

**Torpedo Group (December 2014 - December 2014)**

**Short 1 month contract to create a level generation engine and bring their game development team back on track to meet the release deadline.**

* **Designed and created a C# mono engine ro randomly generate levels of varying difficulty.**
* **There were lots of un expected challenges in analysing the generated level to correctly place decorations and obstacles.**

**Pharmiweb Solutions (July 2014 - October 2014) 2 Extension**

**Initially a short contract to create a mobile wireframe demo application for Android and iOS**

* **Designed and created project independent toolkits for Xamarin forms.**
* **Developed a demo wireframe application in Xamarin for iOS and Android, for presentation to prospective clients.**

**With 2 extensions to work with on bringing a high value web project to completion for one of their biggest clients. Using MVC and Umbraco**

* **Designed and implemented Services tear, integrating MSSql**
* **Produced administration side of the web site. Using MVC and Umbraco.**

National Energy Services (June 2013 – June 2014) - Software engineer - 43K

NES provides software and support to surveyors caring out energy surveys, I took a fixed turn 1 year permanent contract to assist setting up a mobile development department and bring their first mobile product to market.

* Android, iOs, Azure development.
* Evaluation of development tools and language.
* Interviews with candidate engineers.
* Setting out development road map.
* Agile development and scrum lead.
* Cross platform development with Xamarin for iOS and Android.
* C# web services.
* Axml and xml styling.
* sqlLite product databases.

Intouch Monitoring (June 2009 – June 2013) - Software engineer - 32K

Intouch monitoring provides software to the manufacturing industry for the monitoring and planning of production machinery (Injection moulding, extrusion, cnc milling, ect).

* Conversion of existing code base from vb6 to VB.net.
* Implemented a robust reusable c# socket class for use within the core applications.
* WPF and win forms and silverlight frontends
* Design and code a sweet of bolt on applications and modules to extend the versatility and flexibility of the core product line. Including...
  + Native C++/C# applications and classes to handle communicate and provide seamless integration of data from the many different monitoring sources. (IP monitoring nodes, IP keypads, Custom embedded XP touch screen operator PC's, e-Darts and numerous other 3rd party interface SDKs.)
  + Multiple other core DLL’s in C# to create reusable graphics/screen controls and other core functions, e.g Database access, File logging.
  + A web server application, to allow monitoring and control of the monitoring system from external PC's thought a browser based solution.
  + A Silverlight based web application designed to run on IIS and connect to the above server.
  + Applications designed to run Apple iPhone, iPad, iPod touch. Designed to connected to the web server and provide the same functionality. Thought a direct socked interface.
  + Production testing module. Developed in both VB.net and C#, this is an optional component for the core server designed to allow company to set out testing criteria for their products at provide detailed descriptions and an easy way for their test operatives to record result. Automatically scrapping parts and adjusting production requirements as needed. This included the development of a new set of screen controls for use on small touch screen embedded PC’s utilising Apple style screen dragging.

Barclay Card. (November 2008 – March 2009) - Fraud Analyst

This was a temporary contract (Though pertemp recruitment) working in Barclay Cards fraud detection department Customer facing (None IT role):

* First point of contact with customers if their cards had been picked up by the fraud detection system.
* Blocking and re-issue of compromised cards.
* Customer relations often dealing with highly agitated and emotional members of the public and from time to time foreign diplomats.
* Detection of fraudulent activity, including fraudsters with extensive knowledge of the customer attempting to gain access to the customer's account, money laundering and Identity theft.

I.T. Network Systems. (January 2008 – March 2009) - Owner

I.T. Network Systems is a small company I started targeting the needs of home users.

* All Aspects of P.C. repair and setup.
* Home Network and internet setup.
* Training on windows and other aspects of home P.C. use.

TraficMaster PLC. (April 2001 – November 2007) - Senior Software Engineer - 40K

Over my time at traffic master I worked on all their major software products, both for in-house and commercial purposes.:

* Lead design engineer status for the final the final 4 years
* Design and developed:
  + Smart-nav off board navigation servers.
  + TCP Based, Multi redundant data routing servers.
  + Communication Sequencing servers
  + Speech construction engines for multiple languages.
  + Developed an application to take control of the internal phone system,
  + European traffic monitoring systems (Project lead for final 5 years.)
  + A systems for pay as you drive inshore produces and pay as you drive road taxing. Interfacing with the core navigation servers and external government and inherence company systems.
  + Designed and implemented a secure system to take and process requests for subscription time to all products that could be accessed throughout operator terminals, website interfaces and directly for in car navigation and traffic units.
  + Design and developed a system to take the entire traffic feed from the various UK monitoring systems and produce data for transmission over the UK RDS network. Using a weighting based on severity road importance and distance from the broadcast source to prioritise the load from each base station.
* Produced a white paper for presentation to the ministry of transport for consideration in producing legislation regarding the handling and passing on of in-car E and B call to the emergency services.
* Liaison and first contact for 3rd line support for the in-house operations team.
* Regularly served as technical liaison with development teams in 3rd party companies including Motorola, Vodaphone, TIM, IBM and O2.
* Developed coding standards for all server/workstation code as part of the overall business standards team.
* Have leaded various projects to evaluate 3rd party tools and software. Varying from SourceSafe solutions to address look-up databases.
* Perform technical interviews for perspective employees.

P.C. Control Systems. (March 1998 – April 2001) - Senior Software Engineer - 27K

P.C. Control systems specialised in production b-spoke business applications to assist in the running and management of all aspects of their infrastructure.

Involving working with clients to establish specifications and system designs required to address there pacific needs,

* Software was written in a C based 4GL language called Clarion.
* Wrote an application and designed mobile communication modules to run on early CE palmtops, to allowed their field engineers to receive update live time about their appointments list, book re-visits and order spares.
* Designed and developed application to Catalogue all the stock help in one of the UK largest breakers yard chains.
* Developed many of the component including the inter-site communications for our flag ship SellPhone suite of applications,
* In charge of all support for our legacy products and design and implementation all our larger network solutions and hardware repair and construction.

# QUALIFICATIONS.

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| Degree: | Accelerated M-eng(Hon). Electronic engineering First year pass.  Hull University. (Left due to family commitments) |
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| 'A' Levels: | Maths, Physics, Computer Science, Chemistry. |
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| Professional: | Microsoft certification in programming of managed extensions. |
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| Professional membership: | I currently hold a membership on the Microsoft technical advisory board |

# TECHNICAL SUMMARY.

Languages Experience.

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| C++: | MFC, STL, OO, TAP, TAPI, CAPI, ATL, DCOM |
| .NET: | VB.NET, C++.NET C#, V2 – V4.5 |
| Other | VB3-VB6, Clarian, Objective C, Xamarin |
| C: | Both ANSI and pre-ANSI. |
| Database: | Oracle, MS SQL Server, ACCESS, sqlLite |

Protocol Experience.

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| --- | --- |
| Internet: | ARP, DHCP, DNS, FTP, HTML, HTTP, ICMP, IP, PPP, RADIUS, SNMP, SOAP, TCP, UDP, XML, Ethernet. |
| ITU-T: | X.25(sockets) |
| Telecoms: | SMPP, TSAPI. |
| Misc: | RS-485, RS-232. |

Management/Design mythology

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| Management: | Agile, Prince. | |
| Web: | | | MVC, MVVM. |

Tools Experience.

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| IDE: | Visual studio, XCode, Eclipse, Xamarin | |
| Web: | | | IIS, Apache. |
| Management: | Source safe, cvs, Subversion (svn),GIT. | |
| Debug: | Visual Studio, bounds checker, ethereal, Wireshark. | |
| Middleware: | Corba. | |