

MARK PIERCE – SOFTWARE DEVELOPER

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NATIONALITY: British

PROFILE

As a professional software developer, I have been successfully delivering customer-oriented solutions for more than 20 years. Since turning freelance in 1993, I have completed some 30 projects, covering the entire spectrum of software development activities from initial consultation through to end-user support.

I have gathered extensive experience within the scientific sector, in the mass spectrometry, surface science and radiation monitoring industries, and particularly in the application fields of bioinformatics, pharmaceutical research, environmental testing and toxicology. In addition to usability and visualisation techniques, the control of complex instrumentation has been an important aspect of many projects, and I can thus claim an in-depth understanding of electronic and mechanical systems.

Whilst being resident in central Germany, I have also been active for clients and their customers in the UK and USA, working flexibly both on-site as a team member and independently from my own office. My excellent communication and intra-personal skills help me integrate well into differing (also international) working environments and cultures.

TECHNICAL EXPERTISE

- MS Visual C++ (> 5 years), embedded VC++ (3 months)
- MS C# (>2 years), .NET Framework and Compact Framework
- MFC (4 years), Win API (4 years), ATL (2 years), STL (2 years)
- MS Visual Studio 6.0 /.NET
- COM/ActiveX (4 years) and VBX components
- RS232, RS423, GPIB: communication, control, data acquisition
- MS Visual Basic 3.0 – 6.0 (>3 years)
- MS C, Pascal
- Borland C, Delphi
- Assembler (6502, 6809, 80x86)
- SQL, stored procedures, relational database design
- XML, MS XML DOM
- RSS, Atom
- Operating Systems: Windows (3.x, 95/98, NT/2000/XP), Windows CE (PPC 2002, WM2003), MS-DOS, basic familiarity with Unix/Linux
- Web applications: HTML, DHTML, JavaScript
- Server technologies: ASP, ASP.NET, ASP server components, MS SQL Server (1.5 years)
- Scripting Languages: JavaScript (2 years), VBScript, Windows batch files
- Networking: HTTP, FTP protocols, TCP/UDP and sockets
- Other tools: Altova XMLSpy, XenoCode 2004, NUnit, NDoc

EXAMPLE PROJECTS (References and a detailed list of projects are available on request)

- Automated Drug Discovery
- Automated EMC testing system
- Small-molecule protein identification
- Web-based combinatorial chemistry system
- Mass-spectrometry data visualisation tool for PocketPC
- Toxicological analysis in blood/urine

PROJECT EXPERIENCE

- Design and development of object oriented and component software
- GUI design and development, visualisation tools
- Development of components for distributed client/server applications
- Data acquisition, statistical analysis and graphical representation
- Instrument control, e.g. mass spectrometers, chromatography systems, sample changers, radiation monitors, vacuum systems, RF test equipment
- Implementation of networking and communications sub-systems
- Development of Palm and PocketPC (Windows Mobile) applications
- Experience of interfacing to laboratory information management systems
- Planning, installation and administration of small-to-medium sized LANs
- Determination of product requirements in close cooperation with customers and end-users
- Development of functional and test specifications
- Software testing, including the development of emulation environments
- Project planning and management
- Technical and end-user documentation
- Customer training and support

OTHER SKILLS

- German – excellent spoken and written skills, after 10 years residence in Germany
- French – spoken and written to “A” Level standard
- Clean driving license

EDUCATION

Lancaster University, UK **1980 - 1983**

- B.Sc. (Hons) Computer Studies

Sandbach School, Cheshire, UK **1973 - 1980**

- 9 passes at GCSE “O” Level
- “A” Levels: Maths, Physics, French, General Studies

South Cheshire College of Further Education, Crewe, Cheshire, UK **1978 - 1979**

- “A” Level Computer Science (in parallel with full-time school education)

PERSONAL

Marital status: Married, with 3 children

Interests: Fitness, off-road cycling, inline skating, DIY, technology