CIRRICULUM VITAE

PERSONAL DETAILS

Name	Ian Cowburn
Address	Flat 4
	7 Sandileigh Avenue
	Manchester M20 3LN
Tel. (Mobile)	07753690655
Tel. (Home)	0161 446 2715
Date of birth	3rd July 1969
E-Mail	ianc@noddybox.demon.co.uk

<u>SKILLS</u>

C, .NET, C#, C++, HTTP, HTML, TCP/IP, BSD Sockets, UNIX, Windows, SQL (Oracle), Ada, OO, UNIX-shell scripting

EMPLOYMENT HISTORY

Ultra Electronics Air Systems

Jan 2006 – Present	Ultra Electronics Airport Systems
	The Oaks
	Crewe Road
	Wythenshawe M23 9SS

Major Projects

Zurich Airport Baggage Reconciliation System - Software Engineer

My responsibilities here are to design and implement the new TCP/IP interface between the onsite airport systems that register checked-in baggage and our software which provides the functionality required to safely log the loading of this baggage into the aircraft, and reconcile this information against the passenger lists. This software is running under IBM's AIX, written using BSD Sockets and C++.

In addition I am responsible for designing and implementing PL/SQL packages for the construction of manifest messages following aircraft departure which detail the loaded passengers and baggage for these external systems.

Thales

Jan 1992 – Jan 2006 Thales (Services Division) Ashurst Drive Bird Hall Lane Cheadle Heath Cheshire SK3 0XB

Major Projects

RTTI (Real Time Train Information) – Primary .NET Developer

For last three years of my employment with Thales I was part of a team developing the Association of Train Operating Companies (ATOC) Live Departures website, which is accessible via the URL <u>http://www.livedepartureboards.co.uk/</u>.

The system is a 3-tier system implemented as a number of different services, utilising .NET and Windows API in C#, C++ (both managed and unmanaged) and ASP.NET.

Responsibilities for this project have included the design and implementation of various services in C# that communicate with the central server using .NET remoting and allow the information collated for the website to be presented to external clients using XML over TCP/IP. This information is used so that they can provide up-to date train information for telephone, WAP and SMS services.

Other key responsibilities are the diagnosis and fixing of faults reported by end users throughout the system and the provision of enhancements.

This project has been a success with both the customer and the public, winning Innovation of the Year at the National Rail Awards 2004.

Connex - Customer Information System - Primary Developer

For two years I worked as the senior GUI developer for this project, which is a Customer Information System for Connex (now South Eastern Trains). It worked on a client-server model and my responsibility was writing GUI components using Tcl/TK and the supporting C++ code which interfaced with the server using CORBA.

COP3 – Primary Developer

For three years I worked on the Command and Control system for the Singapore Police and Civil Defence (fire) Forces.

My major task was the design and implementation of numerous message handlers that interfaced with other vendor's systems using TCP/IP on a HP-UX platform and written in C.

I also worked on various other server side sub-systems that included the database handling using an in-house Oracle interface. I also had exposure to PRO*C writing custom tools for the import of data from the older systems to ours.

During this period I demonstrated my flexibility by spending time in Singapore generally in 3 or 6 month periods acting as an integrator (interfacing with the French and Singaporean teams), fault fixer and on-call support.

HPB/AGR – Software Engineer

Four years were spent on a plant control software for the Hinkley Point B reactor. This was written in Ada, running under OSF1 on DEC Alphas.

Responsibilities included the design and implementation of an entire offline subsystem which allowed display formats and plant inputs to be tested on a dummy live system controlled by the offline software remotely over a TCP/IP interface. The software was also required to maintain a multiple-user environment where users could not interfere with each other's work and the generation of automatic testing scripts for certain components and display formats.

My other main function was the integration of the software (which was authored on a specialised Rational Ada machine) on the target platform.

Further Skills

X11, OpenGL, Z80 and 6502 assembly, 14-bit Microchip PIC programming, UNIX administration, source control (SourceSafe, CVS and RCS).

EDUCATION

1987-1990

Polytechnic of Central London (Now University of Westminster) 104 New Cavendish St London W1

BSc Science (Computing) 2-2 Hon.

INTERESTS

Football (watching and playing whenever possible), music (playing guitar and using PC based music generation software) and the physical sciences.

I also enjoy coding for fun and have written a number of open sourced software utilities and games. Examples can be seen at <u>http://www.noddybox.co.uk/</u> and <u>http://www.sf.net/projects/wadmangle</u>