

CURRICULUM VITAE

PETER GREENWOOD BA

Design Engineer

I am a Design Engineer with 8 years experience in TCP/IP networks and web technologies. With a background in industrial control systems and secure networking for the pharmaceutical, rail and defence industries I have an excellent understanding of QA as it affects day-to-day engineering practice. I can swiftly learn to apply new technologies as required for a project, while carrying over previous experience.

Present Position

ICON CONTROLS LIMITED (Oct 2002 – present)
Westlakes Science & Technology Park
Cumbria

As a Design Engineer my responsibility is to operate as the lead member of a multi disciplined project team, to oversee and to perform whatever duties are necessary to get a control system built, tested, delivered to the client and subsequently supported. This includes conformance with both ICON and client (mainly Pharmaceutical) specific QA and H&S policies.

My main responsibilities whilst at ICON have been the design, implementation and testing of a £120,000 SCADA system, used to communicate with 20 Provox DCS controllers via the Prodirect interface package. The control system is based on Intellution iFIX, with additional elements in Visual Basic/VBA.. The SCADA server is linked via 100 Mbit/s Ethernet to on-plant and control room operator workstations.

I have also carried out technical investigations, network design and some project management activities for the £600,000 broadband installation for the Westlakes Science Park. The system is based on a gigabit ethernet backbone over monomode fibre, with 100Mbit Ethernet links to the tenancy units. This project met a major requirement for prospective tenants for the Park, including the Nuclear Decommissioning Agency, and the cost was met by a variety of development funding agencies including the EU. The project included provision of support and advice to user organisations.

I identified a potential customer requirement for a tool to provide desktop access to plant data, and implemented a demonstrator of a system to extract data from a SCADA system using Perl and ODBC, and present it via a standard web browser.

I have supervised the company's internal network and broadband connection, including installing a firewall and other IT security related activities.

Previous Employment

SHARED DATA ENVIRONMENT (2000 – 2002)
Principal Engineer

I was responsible for building secure web systems from a set of standard, widely available web applications. The resulting system allows convenient data sharing over WANs and the Internet, in a way that is acceptable for national security or equivalent commercial security requirements. This system was the first to be approved for transmission of RESTRICTED data over the Internet.

This involved programming to harmonise the security features of standard, off-the-shelf web applications with a SSL VPN portal, typically using perl and LDAP.

SYSTEM ADMINISTRATOR (2000 – 2002, part time)

I was responsible for administration of a Sun server, acting as a member of the internal IT department. This was used by an embedded software development team, running applications including Rational Rose, Rational Apex and WindRiver Tornado on Hummingbird Exceed desktops.

JUBILEE LINE EXTENSION SIMS/CIMS/SCADA (1994 – 2000)

Senior Systems Engineer/Consultant Engineer.

With responsibility for system design, network and interface design on a project to provide information management and control systems for the new stations built for London Underground's Jubilee Line Extension.

The system is a custom-written software package, running on dual-redundant HP Alpha servers under Tru64 Unix. These are connected by Ethernet to SCADA RTUs, terminal servers, modems etc. which provide interfacing to station equipment (passenger information displays, PA, lifts, escalators, etc.). The station control systems are linked together and to the central information and management system (CIMS) via WAN links implemented over London Underground's fibre backbone.

Produced shell scripts to perform software installation on site, and shell and C programs to start the main software on system boot.

Carried out an evaluation of a SES simulation tool; this included writing a simulation of an Ethernet network with it.

HEATHROW EXPRESS (1999, part time)

Seconded to the Heathrow Express project, which provided a similar system to the Jubilee Line project above. This task was to troubleshoot problems with the passenger information displays, which were traced to the RS485 serial communications used to drive them.

EUROFIGHTER (1992 - 1994)

Avionics test specification, and software design review for the Eurofighter project.

HAWK 200 (1991 - 1992)

Led a team of 5 people on a project to review BAe software design, and to "productionise" a tool to analyse CORE data dictionary entries.

TORNADO MLU (1991)

Equipment engineering on the Tornado aircraft Mid Life Update project, particularly advanced, low observability navigation and terrain following systems.

SONAR (1980 – 1991)

Passive sonar systems, mainly for the Royal Navy.

Electronics hardware commissioning, system commissioning and test, acting as system maintainer during sea trials with the RN.

Active/passive sonar feasibility study and system design, oversight of hardware/software design and test.

Implementation of signal processing algorithms such as FFT and filtering directly in digital (and occasionally analogue) hardware.

Personal Details

I was born on 5 February 1957. I attended Pocklington School where I gained 4 A levels, and Oxford University where I gained a 3rd class honours degree in Physics. My interests include Linux and open source, science fiction, and folk music and dance.

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