

Currently based in Bristol (Full postal address available on request) | 07434 959 885 | martin@cybercontrol.systems

Senior Software Engineer, willing to consider either contract or permanent roles.

- 10 years' C++ and C software development experience
- 4 years' development using Agile including SCRUM training and use of the Rally tool
- Experienced and comfortable with software development within both large scale systems and embedded hardware systems, ranging from embedded ARM to multi-processor multi-threaded applications with up to 96 cores.
- Track record of success in large corporate and start-up companies.
- Used a range of tools & processes and libraries to develop many software applications and hardware systems, e.g. SVN, Git, Valgrind, Coverity, design patterns (GOF) and Boost.
- Develops effective relationships and communication at all levels.
- Competent and experienced in both individual contributor and leadership roles and willing to do both.
- Worked in the Computer Systems, Computer Storage/Data Management, and Telecommunications industries.
- Experienced in direct customer interaction and system installation, commissioning and on-site verification.

Technical Competencies

- Design and Development: C++, C, Python, Java, shell, Perl, PHP and JavaScript, design patterns and Boost libraries
- Code development, static & dynamic code analysis: Eclipse, SVN, git, Coverity, Bugzilla, Code Collaborator, gcov, Valgrind
- Agile using Rally
- Web Implementation: Apache, MySQL, HTML & DHTML, JavaScript and CSS
- UNIX in general (Linux, HP-UX, Solaris): Embedded, Desktops and Servers
- Networking: TCP/IP, LANs, IP4
- Databases: Informix and MySQL
- High Availability Systems: Serviceguard, Clustering and LVM
- Telecoms: SS7, GSM
- Debian, RHEL, Busybox, Ubuntu and Fedora

Key Achievements

- Developed automated unit and subsystem testing for the HP StoreOnce Deduplication system ensuring continued compliance with changing requirements and significantly improved visibility of test results in a fast moving Agile environment.
- Technical development of photovoltaic measurement systems for installation at domestic, educational & commercial sites, including software and hardware; performed & led all software coding, testing, design and procurement of hardware, and system installation at client sites (including a 250KW system for Bodyshop in Chichester).

Career History**Senior Software Engineer, n.able technology services (Managed R&D Services for HPE) August 2012 – Present**

- Senior Software Engineer in Hewlett-Packard Enterprise R&D Storage Division – developing data Deduplication code.
- HP's StoreOnce storage appliance processes 10's of GB of data per sec and used by enterprise clients worldwide.
- Even split between development and test duties.
- Team-leader role, ensuring all coding and testing tasks are completed on schedule and to quality standards together with technical support and guidance of junior team members.
- Reliability and performance is of utmost priority dealing with vast amounts of business critical data.
- Using C++ primarily but also Shell, SQL, Java and Python in an Agile environment to develop testable, highly resilient software capable of meeting with the most demanding performance and data throughput requirements.
- Key duties include developing modules and handling initial stages of Functional Testing prior to deployment, ensuring completion of all aspects of each project in line with detailed technical specifications and data protocols.
- Developed Unit and Subsystem test framework

Technical Services Manager, Co-Founder & Director, Naturalwatt Ltd / Wattsure Ltd

June 2006 – July 2012

- A renewable energy start-up installing photovoltaic systems and wind turbines.
- Led end-to-end design, development and implementation of Microgrid concept (a hardware & software system to monitor photovoltaic electricity generation) using Linux 2.4 / Busybox, programmed in C, C++, Python, PHP and Shell.
- Initially produced innovative battery-backed solar system using 48V deep cycle batteries.
- Analysing and implementing protocols for many different inverter types to support most of the popular inverters available in the UK.
- Design, implementation and operation of the Microgrid network and main server / database.
- Managed team of 3 staff responsible for providing technical support for the Microgrid network (600 client systems).
- Led development of next generation of Microgrid running Debian on custom-designed hardware.
- Other key duties included analysing market trends to enable identification and specification of future products.
- Developed various add-ons and tools for the Microgrid system, including implementing a web-based revenue protection and prediction system based on solar tracking algorithm and irradiation sensors, for commercial client who needed to track revenue on behalf of investors

Early Career**Mobile / Telecoms Contracts:****Aepona/Orange PCS, October 2005 – June 2006**

- On-site support on SDF platforms (part of core GSM network).

Vodafone Plc, August 2005

- Completed contract as part of team bringing new servers into production.

Orange Personal Communications, August 2004 – December 2004

- Implementing large scale test bed; extensive use of Ignite-UX to capture golden images & deploy into VPAR environment.

Logica Mobile Networks, September 1999 – July 2002 & November 2003 – July 2004

- Initially a 3 month contract (extended 8 times); worked as a member of Support and Implementation team responsible for installing, upgrading and commissioning GSM Prepay systems in the EMEA region.
- Included on-site testing / acceptance and live upgrades for GSM/SS7 systems as well as proposing and implementing improvements to deployment processes

Other Contracts:**HP Managed Services, January 2005 – July 2005**

- 3 month contract (extended) with a team supporting a major new installation (approximately 50 HP-UX Servers).
- Included performing acceptance testing in conjunction with international team including customer.

Alcan Packaging, July 2002 – November 2003

- 3 month contract (extended repeatedly); responsible for undertaking Unix development and providing high-level support in running Unix systems and clusters providing business-critical services including SAP.
- Assisted outsourcing of a Unix environment to HP, including creation of menus to perform regular Ignite backups.

HP, Bristol, December 1998 – September 1999

- 3 month contract (extended twice); worked with the Global Messaging Centre (GMC) supporting an international bank's global messaging system devising initiatives and programmes to reduce fault incident rate.

Previous Contracts: have included telecommunications and other systems projects for a range of clients including: Alcatel, Mobistar, EDS Justice Systems, EDS Defence, British Gas Exploration and Production, Powerhouse Retail

Previous Permanent Roles:

Digital Equipment Corporation - 5 years (Database Admin, Technical Sales Support for Gas, Telecom and Education account teams), Reuters Fleet Street - Assistant Manager, Trading Room Systems Technical Support / Project Executive, Trading Room System Technical Support

Ministry Of Defence Procurement Executive - Software Quality Assurance Officer validating compilers.

Qualifications & Training**Personal Information****BSc (Hons) Electrician & Electronic Engineering**, Bristol University**Driving Licence:** Full UK Licence, with own transport