

PAUL SWEENEY

CEng MIET

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A powerful combination of computing, organisational and commercial skills, with a consistent track record of quality delivery to time and budget.

- Proven ability to rapidly adapt to new technologies & assume the role of a technical authority.
- Wide-ranging background of successful project management & team leadership.
- Customer-facing skills from on-site technical implementations, to board room results presentations.
- Over 30 years experience of computer systems, architecture and development.

Professional

Accreditation

- **MEng in Electrical/Electronic Engineering from Imperial College London** (1988-1992); gave a comprehensive understanding of the low-level operation of computer hardware and networks.
- **CEng MIET** as a result of IEE appraisal of a 12-year personal portfolio of training and experience.

Management

- **Agile Team Leadership** of OOA/OOD developers successfully delivering to tight timescales, using a blend of Sprint/Scrum and Kanban approaches.
- **Project Manager** with a dependable record of completion to time and budget - from own work to 20-strong development department, and from rapid development to multi-department collaborations.
- **Project Engineering** (C&I) for nuclear power plant to BS5750/ISO9000 & BS5882 Quality Assurance standards - company Class 1 Registered Author and Verifier.

IT

- **Systems** – CCNA awarded in May 2002, plus additional Cisco WAN expertise; System administration, design and implementation for Microsoft & Linux/Unix networks (MCSE on NT4 awarded Mar 1999). Linux Kernel build and faultfinding.
- **Recent Software Development** – C# 2.0 - 4.0 Full and Compact Framework. Scored 99/100 in IKM C# v4.0 assessment in 2012 (97% percentile of those taking the test). MS SQL Server to 2008. Visual Studio to 2010, Kiln (Mercurial-based) version control, Python scripting.
- **Previous Development Highlights:** - C++, C, Python, SVN, CVS, VB.NET, C# MCAD (Jul 2004), Unix, Solaris, Rational Purify, Java, JBuilder, Training Simulation Real Time Fortran/C, Various scripting including Awk, MS Batch, CSH/KSH/BASH, PHP, Python.

Recent Career Timeline

Software Development Lead Acumentive Ltd	Aug 2007-Present
.NET E-Commerce Developer Commercial Services, Kent County Council	Aug 2005-Aug 2007
Lead Developer & Website Testing Consultant SciVisum Ltd, Sittingbourne, Kent	Jan 2004-Jul 2005
Founder/Director – Kolossi Consultants Ltd	Apr 2003-Nov 2005
IT Systems Engineer (Advanced CCTV systems) Astraguard Ltd, Sevenoaks, Kent (through Kolossi Consultants Ltd)	Apr 2003-Dec 2003
Simulator Developer BNFL, Oldbury Training Centre, South Glos. (through Kolossi Consultants Ltd)	Jun 2003-Dec 2003
Career Break	Aug 2002-Mar 2003
Software Development Engineer Viewgate Networks, Sevenoaks, Kent	Dec 1999-Aug 2002

Career Detail

Software Development Lead

Acumentive Ltd
RadiantWave Ltd

Aug 2007-Present

Company Relunched as Acumentive Dec 2009

A specialist Auto-ID technology & software consultancy, providing solutions to the Logistics and Healthcare industries amongst others. A genuinely "Virtual" company, with employees working full time from home.

"With a superb blend of skills in man-management, technical knowledge and pragmatism, he always strives to remove obstacles and let the consultants & engineers focus on the important tasks at hand"

Clinton McCutcheon, Solutions Consultant, Acumentive Ltd

Tech Stack: C#, ASP.NET, .Net 3.5, WCF, Windows Mobile, Windows CE, Windows 7, Vista, Windows XP, Windows Forms, Windows Service, MSSQL 2008, Kiln/Mercurial/Hg, Agile, Scrum, Sprint, Kanban, Linq, RFID, Wavetrend, Sonitor, CenTrak, Intermec, Cardax, GS1, TCP, UDP, IP, XML, XSLT, Multithreading, IIS, TDD, JQuery, Hosted Applications, Log4Net, Quartz, VMWare, Python, Dependency Injection, Consultancy

- Started as the sole technical consultant/programmer working with the MD, providing technical support, pre- and post-sales consultancy and software developer duties.
- Developed a number of Python script utilities to ease the process of building and testing quality products delivered on a third party's application framework.
- Having worked with the company's collection of various bespoke and third party applications delivered to clients, designed and developed a unified C# application framework able to rapidly meet the client's needs. The framework is able to deliver flexible data marshalling for multiple types of hardware and backend systems, and produce Windows, Web & Mobile (Compact Framework) Client applications. It is built to target MS SQL Server 2008/5/2k.
- Formed and headed up the company's growing technical team, up to 4 consultants.
- Established simple yet effective systems allowing Bug Tracking, Project Management, Collaboration (Wiki), Change Control, Data Backup and DVCS version control - overcoming the challenges of the distributed nature of the company.
- Performed the role of technical authority maintaining both a detailed knowledge of the technology and forming lasting supplier relationships with the many types of RFID, Ultrasonic ID and Real-Time Location Systems in use by the company.
- Pioneered the use of Virtual Machines (Virtual PC & VMWare) for testing and demonstration purposes.

.NET E-Commerce Developer

Commercial Services, Kent County Council

Aug 2005-Aug 2007

A commercial division of the organisation charged with providing goods & services to other departments, and bringing money into the council.

Tech Stack: C#, ASP.NET, .Net 2.0, IIS, MSSQL 2000, Windows 2000, OneOffice, eCommerce, Punchout, Transparent Search, XML, XSLT, SOAP, Web Services, WSDL, Javascript, VB.NET, CVS, Wiki, SourceSafe

- Lead responsibility for the division's bespoke web shop software. Established and operated departmental systems for version control, configuration management, documentation, and deployment.
- Specified, developed, and implemented e-commerce integration with client systems using Integra, Agresso, @UK, Capita SIMS and Oracle I-Procurement. Facilities made available included transparent search and punchout catalogue access, and email, web-service & http order submission.
- Lead technical role in implementing and customising a Strategix OneOffice SCM system replacing several backend systems, which went live late 2007.

Lead Developer & Website Testing Consultant
SciVisum Ltd, Sittingbourne, Kent

Jan 2004-Jul 2005

Web Application Monitoring and Testing Consultants.

Tech Stack: Python, Red Hat Linux, MySQL, PHP, CVS, HTML, HTTP, ASP.NET, Multithreading, Web Testing, Load Testing, Stress Testing, TDD, PyUnit, eCommerce, Consultancy, C-Level presentations

- Designed and developed a Python scriptable web retrieval, analysis and load testing engine, capable of simulating varying numbers of concurrent users performing journeys through the pages of a website. First version used in load testing on a client site within 2 months of project start.
- Established and operated systems for CVS version control, feature/bug tracking and documentation.
- Performed client requirements capture, and both remote & on-site load testing for major household names. Presented results to client technical staff, management and board members.

IT Systems Engineer

Apr 2003-Dec 2003

Astraguard Ltd, Sevenoaks, Kent (through Kolossi Consultants Ltd)

Suppliers and integrators of Video & CCTV analysis, and Digital Video Recording systems.

Tech Stack: CCTV, DVR, Red Hat Linux, CVS, Windows 2000, Kernel, HTML, PHP, Awk, Grep, Ksh, Bash, Apache, XWindows

- Established and operated systems for CVS version control of software distributions & Linux kernels, and tracking of customer site equipment, software configuration & work logs.
- Key Windows 2000 & Linux installer, integrator and support engineer for several major customer sites, including the Bank of England, Met Police, and High-Security prisons.
- Developer of Linux Kernels & distributions, software installation scripts, and HTML/PHP configuration and monitoring tools running under Apache.

Simulator Developer

Jun 2003-Dec 2003

BNFL, Oldbury Training Centre, South Glos. (through Kolossi Consultants Ltd)

Agreed call-off contract with former employer for Software Development when Astraguard workload allows.

Founder/Director – Kolossi Consultants Ltd

Apr 2003-Nov 2005

Incorporated and VAT Registered Kolossi Consultants Ltd.

Career Break

Aug 2002-Mar 2003

Took advantage of the opportunity to spend some exceptional months with my new young family, and spent time reassessing my achievements to date and career & life plans.

Software Development Engineer
Viewgate Networks, Sevenoaks, Kent

Dec 1999-Aug 2002

Software Development company for telco and customer WAN infrastructure monitoring.

"A highly methodical approach, with a strong focus on procedures designed to eliminate errors ...
High quality maintainable code" Daniel Mack, Director of Advanced Technologies, Viewgate Networks

Tech Stack: C++, SNMP, CCNA, Cisco, WAN, QOS, CAR, MPLS, BGP, IPSEC, VPN, Unix, Solaris, RogueWave, STL, Rational, Purify, Quantify, RCS, UML, Project Management, Java, Awk, Grep, Csh, Ksh

- Team Lead of three OOA/OOD developers using Extreme Programming techniques to take a C++ SNMP Data Collection module from Specification & UML Design, Implementation & Unit Testing to integration with the WAN QOS (CAR) monitoring product in 3 months. Build and version control procedures devised for this project were adopted as a company standard, and the trial use of flexible/home working was more widely rolled out.
- Acted as technical advisor to interim Development Manager and project managed the department through the satisfactory resolution of all customer issues with legacy product and simultaneous production of a new MPLS/BGP (and later IPSEC) VPN monitoring product to market in three months.
- Formed and managed a product customisation team to give faster turnaround to customer requests to create/modify Java modules for product data collection system. Often involved faultfinding, resolution, testing and deployment for live overseas sites with turnaround measured in hours.
- Prevailed through 2 rounds of redundancy that reduced the development department by 70%. Made redundant as company relocated away from the area and reduced to a development staff of 4 - negotiated enhanced redundancy terms including personal MCAD course to expand knowledge of SQL Server 2000, C#/ASP .NET and XML Web Services. Offered contract work soon after departure.

Nuclear Electric/Magnox Electric/BNFL

1989-1999

BNFL Magnox Generation
Magnox Electric plc
Nuclear Electric plc

1998 Government designated merger
1996 Nuclear Electric plc part privatised

Simulator Maintenance & Development Engineer

May 1996-Dec 1999

Magnox Electric plc, Oldbury Training Centre, South Glos.

Lead of two engineers charged with balancing the often-conflicting priorities of high availability management and enhancement of the computing hardware, software and infrastructure of two full-scope configurable nuclear power station control room simulators, office LAN (30 users) and training AV facilities.

"Paul achieves set deadlines which are within his control, despite considerably high workloads"
Paul Griffiths, Simulator Operations Team Leader, Magnox Electric plc

Tech Stack: RealTime, Simulation, C, Fortran, PMSP, SCCS, Electronics, Hardware, LAN, Windows NT4, OS/2, Dec Alpha, XWindows, VMS, Project Management, Technical Authority, Budget Management

System Administration

- Turned around the uncoordinated, unmanaged and unreliable simulator and LAN systems - implemented enhancements & upgrades, introduced simple procedures, and achieved corporate policy changes. Resulted in stabilised performance, lower running costs and the introduction of additional tutor productivity facilities.

Development

- Careful balancing of commercial and sys admin priorities enabled several major GUI and C/Fortran simulator software development projects to be completed without impact to other responsibilities.

Commercial

- Operated £90k Simulator Maintenance and Development revenue consistently within budget, securing capital funding through considered business justification, and additional revenue/NRR where necessary.
- Sole computing technical authority for two projects (£1.2m+) – a combined hardware replacement and software porting & enhancement project, and a complete simulator replication project. Both ran in parallel and were completed to original time and cost.

Control & Instrumentation Engineer

Nuclear Electric plc, Berkeley Technology Centre, Glos

1989-1996

Promoted 1996

Member of a Control and Instrumentation Project Engineering Group, working to BS5750 (now ISO9000) & BS5882 (Nuclear QA) for Magnox, AGR and PWR nuclear power stations.

"Paul is a highly qualified engineer who is self-motivated and works to time and cost within the company framework."
John Large, Systems Engineering Team Leader, Magnox Electric plc

Tech Stack: PWR, Magnox, AGR, Nuclear, QA, ISO9000, Class 1 Registered Author and Verifier, BS5750, BS5882, Consulting, Compass, Dec, Vax, PDP, VMS, Ultrix, PMSP, C, C++, Basic, 4GL, WISCO, Matlab, AutoCad, C&I, Electronics, Process Control, Consultancy, Contractor, Supervisor, Project Manager, Health & Safety, Investigation, Report, Commissioning

- Led a multi-departmental project to conduct a safety analysis of an unusual operation of equipment at a Nuclear Power Station, producing the final report for Station Management and regulatory authorities.
- Technical authority on the process computing systems at Sizewell B for group, having taken part in commissioning and early operation of the site during 7 months of secondments.
- Contract technical officer and supervisor for senior agency engineer and lab technician.
- Volunteer membership of IT strategy working-groups and QA policy creation – became a company Class 1 Registered Author and Verifier.
- Software specialist – capturing requirements, producing design, attaining QA approval for proposals, rigorous testing of developed/modified software; Data manipulation & validation applications for office engineering staff, to station plant process computing, including work on live control room systems.
- Produced several key software modules and implemented project quality systems for a total rewrite of one of the company's training simulators; project completed and accepted to time and cost.

Personal

- British; Born 10th March 1970; Fit, lifelong non-smoker; Living in Ashford, Kent.
- Two children under 12 years old.
- Own car, full clean driving licence, and member of Institute of Advanced Motorists.
- School Education to A Level in Kent, bar three years in UK Sovereign Base Area, Episkopi, Cyprus.
- 30+ years computing use from machine code on first home computers to cutting edge PC technology.
- Served for 2 years as Parent Governor at my children's primary school, with particular responsibility for Health & Safety, and steering the new school building through the initial "snagging list" phase.
- Served for 2 1/2 years as elected Parish Councillor for Bradley Stoke (pop. 18,000); Chair of Finance & Administration Committee - maintained £1.3m of deposits with approx £300k pa income & expenditure; Chair of Leisure Committee - introduced a rational system for assessment of grants to local organisations (£16k pa).
- Private Pilots Licence JAA-PPL(A)/SEP, 67 hours in the logbook. Highlights of flying career to date:
 - Third place in the 2012 Headcorn Spot Landing Competition.
 - First Weald Aviators Club member to have a flight plan approved by "Atlas Control" and then fly under Military Air Traffic Controllers in the 2012 Olympics R112 Restricted Zone.
 - Takeoff and landing on snow Feb 2012.
 - Coping with seat sliding away from the controls due to a catch failure and then being "in the air" with a Spitfire over the White Cliffs - both on my second solo navigation flight.