e-mail: a.alalousi@gmail.com

mobile: +44 755 4004992

British Citizen, full clean driving license

PROFILE

Highly skilled Architect with vast credible experience. Passion for delivery to requirements, scope, time, cost and KPIs. Confident character and adaptable leader, able to quickly and accurately translate requirements into formal documents and architectural blueprints. Extensive experience in working within TOGAF and non-TOGAF frameworks, in complex Matrix-type organisations.

Very strong technical background gained in both fixed and mobile telecoms, energy and financial sectors, coupled with full understanding and appreciation of business drivers, delivering entire bespoke systems, both embedded and off-the-shelve. Strong experience of managing onshore/offshore resources, business analysts, test analysts and third-party vendors.

Ability to delve into subject matter expert-level micro views of a given problem, while maintaining the pragmatic and overall view of the architect, necessary in delivering software-based products, which cross over and interact with infrastructures, hosting both applications and core network services.

Previously, Lead Architect at Vodafone Group and Vodafone UK, Architect and UC SME at the UK Government Cabinet Office and currently, Vodafone UK. Details of Government roles covered under the Official Secrets Act. Prior, senior lead architect and product designer responsible for delivering a top business priority product for Vodafone Group Services UK LTD in the Unified Communications space, with core emphasis on integration with a multitude of platforms including Microsoft Lync, Microsoft Exchange Telephony Integration, Cloud (AWS, Azure, OVH, custom), SaaS, SOAP, JSON, REST and XML integration, utilising a depth and width of available tools.

Fluency in several Oo, imperative and functional programming languages, as well as the full SDCL, Agile (Scrum, Kanban and Scrumban)

PROFESSIONAL SKILLS, TOOLS & QUALIFICATIONS

**Education**

**2019 – date, Brunel University, London**

Ph.D. research into a technology blueprint and development platform for IoT and AI applications. Expected to last 36 months.

**2000 – 2003, University of Manchester, Manchester**

Ph.D., (No Corrections), Computer Science (design and investigation of routing protocols in next generation packetised networks)

**1994 – 1996, University of Manchester, Manchester**

MPhil. (Distinction), Electrical and Electronic Engineering (silicon synthesis in safety critical environments)

**1992 – 1994, University of Manchester, Manchester**

B.Sc. (Hons), (1st), Computer Science with Engineering Options

**Professional Certifications and Memberships**

* TOGAF 9, Level 2
* CCIE (Expired)
* Staffware Developer
* PRINCE2 Practitioner
* SCRUM Master
* ITIL v3 Foundation
* Member of the PMI
* Member of the British Computer Society (B.C.S)
* Member of the Institute of Engineering and Technology (M.I.E.T)

**ASSIGNMENTS/EMPLOYMENT HISTORY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**June 19 – Date, Technical Design Authority, Vodafone Business Services – UCC Practice, Paddington**

Engaged as TDA and Lead Architect, working on a major program for Vodafone’s customer Centrica.

This role is to act as the ultimate design authority on a far reaching program of work to transform Centrica’s entire voice and data estate, so that all services are provided through Vodafone products.

Areas of work include:

* SIM/eSIM /IoT device technology, (e)SIM provisioning architecture and processes and corresponding (e)SIM IoT standards as GSMA SGP.21 and SGP.22 or SGP.01/02
* Mobile operator systems design (BSS, OSS, CSM, etc.) and eSIM architecture
* Analytic and problems solving, including assessment of log files from abstraction layer down to physical layer
* Large scaled integration projects and problem management
* Web systems, authentication mechanisms and components: web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates
* Microsoft Teams
* SIP trunks
* SBC’s
* Cisco Voice
* Pexip Video
* MPLS
* Data Centre Design

The job function is to lead a team of engineers pulling together a solution involving MS Teams, SIP Trunks connected via SBCs connecting to a wider technology stack including cisco voice and Pexip video, as well as a very large and extensive IoT estate, to be novated under the Vodafone Business Services (utilities) umbrella, from the ground up.

Tasks include the production and validation of LLDs and HLDs though collaboration and leadership of architects and SMEs, running the Design and Change boards, stakeholder and leadership team presentations, amongst others.

Direct reporting line is Director band.

**Apr 19 – June, Chief Technology Architect, MEDCO Engineering and Modelling, Woking**

Recruited by a long time standing client to head-up the newly formed technology Division, MEDCO was founded in 1992 to offer consultancy and software to coiled tubing companies. Industry leader in hardware/software solutions to major energy, oil and gas well servicing companies.

Reporting to the CEO, responsibilities include:

* Fulfil the role and responsibilities of the Group CTO
* Formulate the overall technology strategy for the Group companies
* Drive, and where necessary produce, technology blueprints
* Lead teams of SMEs and developers to deliver the product visions, providing detailed SME input into specific areas of expertise where necessary
* Staff appraisals, technology budget management
* Group and company direction with other members of the leadership team
* Lead and drive integration of COTS and/or Free and Open Source Software
* Implement cloud orchestration tools and technologies such as Cloud Formation and Terraform, and ability to incorporate these in system implementation activities
* Evangelise for infrastructure build automation DevOps tools, technologies, and processes (e.g. Chef, Ansible)
* Drive software DevOps Continuous Integration/Continuous Delivery (CI/CD) processes and tools (Jenkins, Cucumber)
* Development of containerised applications using Docker and similar tools
* Produce system design artefacts per customer deliverables and/or other requirements

**Dec 18 – Apr 19, Product Architect – Vodafone Carrier Services, Vodafone Groupe, Newbury**

Responsible for leading the business product design, development, successful delivery, in-life evolution and management of the carrier messaging road map, with a key emphasis on the Vodafone Messaging Hub (VMH).

Accountabilities include:

* Ownership, definition and documentation of market-based product and technical requirements, and agreeing those with key stakeholders
* Ownership of the holistic end-to-end high level design and be responsibility for translation  
  of functional and non-functional requirements into solutions that span the product ambition
* Act as the “go to” resident expert for the product design across Service, IT, Network, SMS routing, Security architectures, user experience and journey.
* Supplier selection, Capex / Opex budget management of the solution with detailed costs
* Through demonstrable cross-functional experience, drive virtual team to become the recognised point-of-contact within Technology for your products.
* Technology expertise and skills include:
* Signalling protocols (SS7/SIGTRAN) and SMPP
* Web design knowledge/sensibility (HTTP, TLS, DNS, modern front-end protocols)
* Databases (SQL)
* Security expertise including best practices (IPsec, 2FA, encryption) and compliance (including ISO27001)
* Data analytics, RCS, OSS and BSS IT systems domain experience
* API and integration expertise
* Subject matter expertise in designing complex carrier solutions, including an excellent knowledge of competitor offerings and technology evolution.
* Extensive experience dealing with multinational corporate customer needs and global suppliers in a solution design, product architecture, engineering and consultancy
* Extensive experience with IT Managed Services with ITIL focus.

**Nov 17 – Dec 18, Chief Program Architect – Major Programs, Vodafone Enterprise UK**

Engaged as overall Product Architect in a high-priority, confidential major program.

Primary role is to engage across a broad range of contact points within a customer organisation and determine the technology solution required to provide market-leading service to that customer. Working with global clients who are UK-centric as part of the Solution Design organisation in Vodafone UK.

The nature, criticality and scale of some of these opportunities require the Product Architect to interface across all work stream-specific architects and leads to critique, QA and direct both designs and thoughts towards achieving success of delivery. This by necessity implies working with cross-functional teams and having both the pragmatic, as well as the specific expertise to work with highly-skilled, highly-specialised skill sets.

Key accountabilities and decision ownership:

- QA and steer of the designs as head of the Design Review Board

- QA and steer change requests as head of the Change Approvals Board

- Developing, understanding and codifying requirements, with information gained through interaction with area-specific architects and SMEs both internally and with the customer

- Single point of contact for business and customer during requirements capture phase

- Creation of solution designs to solve specific customer problems

- Responsible for technical support to commercial discussions, including bid qualification

- Responsible for presenting the technical solution to client at peer level

- Responsible for translating customer requirements into Vodafone language, product-set, etc. and producing design documentation

- Responsible for gaining sign off for technical design (both customer's and internal designs)

- Responsible for the technical relationship with third parties and partners

The customer is a critical organisation within the UK Public Sector.

Skills Highlight:

* **Microsoft Lync 2013, Skype for Business, and Skype4B on premise, hybrid and cloud (Azure) deployment, MS Teams**
* Full mobile operator software stack development including BSS, OSS, CSM and CRM
* Debugging and log analysis and processes of methodical problem solving across all layers of the OSI stack
* Ability to integrate a number of heterogenous systems with “black-box” type fully managed services
* Apigee – RESTful APIs
* TOGAF
* Design, validation and proofing of Conferencing and collaboration solutions
* Business functions critique and development (Accounting, Finance, Marketing, Strategy …etc.)
* Architecture Blueprint and Roadmaps development
* Systems security and compliance
* Network Infrastructure and Application Architecture Development
* Stakeholder management both internal and customer-facing
* HLD and LLD ownership and critique
* Technical Design Authority
* Virtualisation and private, secure cloud
* IP/MPLS
* Legacy SDH

**Jul 17 – Nov 17, Lead Architect – VC & Telephony, Guy’s and St. Thomas’s NHS Foundation Trust, City of London**

Reporting to the Head of Architecture, part of this role is to lead, QA, validate and qualify designs and implement solutions for the transformation of a large, organic and disjointed Conferencing and Telephony estate. Specific details are under NDA.

Skills Highlight

* **Microsoft Lync 2013, Skype for Business, and Skype4B on premise, hybrid and cloud (Azure) deployment, MS Teams**
* MS Azure App Service, Functions and API, VMs and API
* Detailed knowledge and understanding of web services and systems from authentication mechanisms all the way to web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates …etc
* Very large scale, mission- and life-critical system which underpins critical national infrastructure
* Design, validation and proofing of Conferencing and collaboration solutions
* Software MCU
* Interaction with mobility-specific work streams feeding back on platforms of choice considerations, including Mobile Iron and VMWare Airwatch
* Virtualisation platforms (VMWare, Hypervisor)
* Fixed and Mobile network integration over IP
* MS Windows 2008 R2 platforms
* Virtualisation and private, secure cloud
* Design authority, supplier vetting and selection
* User requirements capture/feedback
* Operations handover and war gaming
* Embedding and design of a conferencing compatibility platform built around Pexip Infinity to allowing any-device, any-platform connections while delivering native user experience.
* HLD and LLD production
* Architecture and development of bespoke web and mobile applications, predominantly in Ruby and Java Script
* Apigee – RESTful and Proxy Editor, Video Conferencing Platform and App

**Apr 17 – July 17, Phase 3 SCADA Network Bid Architect and TDA, MEDCO Engineering and Modelling**

MEDCO was founded in 1992 to offer consultancy and software to coiled tubing companies. Industry leader in hardware/software solutions to major energy, oil and gas well servicing companies. Recruited to fulfil a split-task role, where expertise in systems and network architecture needed to go hand in hand with very strong program and project management skills. This is for Phase 3 of the SCADA network development for this long-standing client, with the goal of successfully leading a bid for a major program of work with one of the largest energy conglomerates globally.

Tasks included:

* Technology leadership and bid steer
* Oversee the design, proof of concept and implementation of Phase 3 proposals for an intricate SCADA (Supervisory Control and Data Acquisition System
* Production of architectural, High Level and Low-Level Design proposal documents
* Design and prove reliable data transport mechanisms in a Proof-of-Concept lab
* Off-shore resources based in the Far East, as well as field-based resources delivering a variety of activities and possessing different skills
* Contract Negotiation
* Procurement
* Supplier Vetting

Skills Highlight:

* Detailed knowledge of and expertise in web services and systems from authentication mechanisms all the way to web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates …etc
* Very large scale, mission- and life-critical system, underpinning the entire lifecycle of hydrocarbon energy production from mining to upstream and international delivery of services.
* C, C++, Python and Java Script Development
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* MS Azure Service Bus, VMs and App Services
* AWS Cloud and Automation and monitoring tools (e.g. Puppet, AWS Lambda, AWS Config, Ansible)
* OSS and customer-facing portal architecture and development with LAMP + Tomcat core/MySQL/PostgresSQL
* Fixed and Mobile network integration over IP
* Private- and Public-cloud delivery mechanisms
* Shell and Python scripting
* Embedded software and hardware development (multi-core ARM + Linux 3.x kernel under Yocto)
* Virtualisation and cloud hosting
* Security and penetration testing
* Core IP network design, validation and acceptance
* Operations handover and war gaming
* Architectural governance, scoping, analysis ...etc.
* Apigee – Cross-cloud, portal, RESTful

**Feb 17 – Apr 17, Lead Architect/TDA, Freshfields Bruckhaus Deringer, City of London**

Freshfields is the oldest law firm in the world and the only Magic Circle law firm to rank in the top 5 law firms, world-wide.

Reporting to the Head of Infrastructure, this role is to lead, QA, validate and qualify designs and implement solutions for the transformation of a large, organic and disjointed Conferencing and Collaboration estate. Specific details are under a 3-year NDA.

Skills Highlight

* Microsoft Lync 2013, Skype for Business, and Skype4B on premise, hybrid and cloud (Azure) deployment
* Design, validation and proofing of Conferencing and collaboration solutions
* Production of the 3- and 5-year roadmaps for the future of the Conferencing and Collaboration estate
* Software MCU
* Interaction with mobility-specific work streams feeding back on platforms of choice considerations, including Mobile Iron and VMWare Airwatch
* Virtualisation platforms (VMWare, Hypervisor)
* Fixed and Mobile network integration over IP
* MS Windows 2008 R2 platforms
* Virtualisation and private, secure cloud
* Design authority, supplier vetting and selection
* User requirements capture/feedback
* Operations handover and war gaming
* Embedding and design of a conferencing compatibility platform built around Pexip Infinity to allowing any-device, any-platform connections while delivering native user experience.
* HLD and LLD production

**Sep 16 – Feb 17, UC and Conferencing Lead Architect and SME, Cabinet Office, UK Central Government**

Reporting to Program Management, role is to lead a consultancy and strategy piece for a program of work involving information sharing and communication delivered from Central Government.  Task also includes production of High-Level and Low-Level designs across the entire piece. Conferencing and UC-enablement in a secure but flexible environment, soft clients and a reference design for delivering UC and Conferencing through various interfaces.  Exact details of systems are under stringent NDAs, though broadly comprising of open source platforms, Microsoft Exchange, Directory Services, room systems with immersive and non-immersive systems, as well as secure voice interconnects. Detailed designs and components deliberately omitted in this description.

Skills Highlight

* **Microsoft Lync 2013, Skype for Business, and Skype4B on premise, hybrid and cloud (Azure) deployment, MS Teams**
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* AWS Cloud and Automation and monitoring tools (e.g. Puppet, AWS Lambda, AWS Config, Ansible)
* MS Azure App Service, Functions, DevTest Labs, VMs and API
* Detailed knowledge of and expertise in web services and systems from authentication mechanisms all the way to web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates …etc
* Very large scale, mission-critical systems, spanning the width and breadth of heterogenous conferencing systems, delivered to both end customers and white-labelled for partners and resellers.
* Design, validation and proofing of a bespoke UC and Conferencing system in a secure environment
* Software MCU
* Secure mobility in iOS and Android environments
* Interaction with mobility-specific work streams feeding back on platforms of choice considerations, including Mobile Iron and VMWare Airwatch
* Open Source Linux Platforms forming user devices as well as core components
* Google Apps and Chrome browser delivery
* Virtualisation platforms (VMWare, KVM, XEN, Hypervisor)
* Fixed and Mobile network integration over IP
* MS Windows 2008 R2 platforms
* Virtualisation and private, secure cloud
* Security and penetration testing
* Design authority, supplier vetting and selection
* User story and requirements capture/feedback
* Operations handover and war gaming
* Operating in an Agile (SCRUM) environment across all work streams
* Management of stories and update of development tasks during daily stand-ups
* Conferencing compatibility platform allowing any-device, any-platform connections while delivering native user experience.
* HLD and LLD production
* Management of stories and update of development tasks during daily stand-ups
* Apigee – details restricted under Official Secrets Act

**May 16 – Sep 16, Phase 2 SCADA Network Lead Architect, MEDCO Engineering and Modelling**

MEDCO was founded in 1992 to offer consultancy and software to coiled tubing companies. Industry leader in hardware/software solutions to major energy, oil and gas well servicing companies. Recruited to fulfil a split-task role, where expertise in systems and network architecture needed to go hand in hand with very strong program and project management skills. This is for Phase 2 of the SCADA network development for this long-standing client, with the goal of delivering as a cloud service (mainly AWS and private cloud)

Tasks included:

* Technology leadership and process re-engineering for the energy hydrocarbon industry
* Oversee the design, proof of concept and implementation of Phase 2 of an intricate SCADA (Supervisory Control and Data Acquisition System) to deliver cloud services using Bearers of Opportunity as communication mediums
* Production of architectural, High Level and Low-Level Design documents
* Update designs and prototype development the data logging and SCADA embedded system to utilise Multi-Core ARM processors, running a real-time Linux kernel and a tailored Linux distro generated through the Yocto Project framework
* Design and prove reliable data transport mechanisms and account for major security requirements necessary for complex compliance requirements in the cloud.
* Off-shore resources based in the Far East, as well as field-based resources delivering a variety of activities and possessing different skills
* Contract Negotiation
* Procurement
* Supplier Vetting

Skills Highlight:

* Detailed knowledge of and expertise in web services and systems from authentication mechanisms all the way to web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates …etc
* Very large scale, mission- and life-critical system, underpinning the entire lifecycle of hydrocarbon energy production from mining to upstream and international delivery of services.
* C, C++, Python and Java Script Development
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* AWS Cloud and Automation and monitoring tools (e.g. Puppet, AWS Lambda, AWS Config, Ansible)
* OSS and customer-facing portal architecture and development with LAMP + Tomcat core/MySQL/PostgresSQL
* Fixed and Mobile network integration over IP
* Private- and Public-cloud delivery mechanisms
* Shell and Python scripting
* Embedded software and hardware development (multi-core ARM + Linux 3.x kernel under Yocto)
* Virtualisation and cloud hosting
* Security and penetration testing
* Core IP network design, validation and acceptance
* Operations handover and war gaming
* Architectural governance, scoping, analysis ...etc.

**Feb 16 – May 16, Lead Architect, DELL Systems**

Design Authority – UC, Conferencing, Cloud and Collaboration, Lync/Skype4B

Reporting to the Head of Architecture, role is to lead a consultancy and strategy piece for one of DELL’s highest profile financial institutions – a recognised global banking group. With over 1,000 room and immersive telepresence systems, and over 120,000 UC-enabled desktops, the customer estate is both large, disparate and challenging. Remit is to document current state, identify challenges, thoroughly understand business and strategy drivers and produce future state,1-, 3-, and 5-year roadmaps with documented transformations. Exact details of systems are under stringent NDAs, though broadly comprising of a Cisco, Microsoft Lync/Skype4B estate, together with immersive and non-immersive room systems from Cisco, Polycom and LCR deployments. Key to the business is a move to cloud-based UC as a service, with the ability to maintain a hybrid estate as transformations are taking place Microsoft O365 and Azure are also key drivers.

Key tasks include:

* Roadmap and strategy ownership
* Current, transformation and future state development and documentation
* Business strategy, thought leadership and key stakeholder lobbying
* Business case input and buy-in
* Senior stakeholder communication
* Team leadership in a matrix environment
* Mobility strategy development, design and implementation blueprints
* Requirements Capture
* Production of Functional Requirements Specification (FRS)
* Iterative document production
* Production of architecture blue prints for Video Conferencing, Cisco UC and Cisco Jabber clients, Lync and Skype for Business conferencing integration, VoIP, WebRTC and mobile device integration across a wide and varied video conferencing and other end points.
* Authority on core IP network design validation, MPLS interconnects, SIP flow designs …etc.
* Leadership and influence of final products
* Vendor Selection
* Contract Negotiation

Skills Highlight

* **Microsoft Lync 2013, Skype for Business, and Skype4B on premise, hybrid and cloud (Azure) deployment**
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* Extensive use of the Azure stack across the breadth and width of the offering
* Microsoft Azure Cloud
* Cisco CUCM 8.x, 9.x, 10.x, TMS, MCUs, Cisco Jabber Clients …etc.
* Pexip Infinity platform
* iOS and Android SDKs
* Ctrix XenApp
* Virtualisation platforms (VmWare, KVM, XEN, Hypervisor)
* Fixed and Mobile network integration over IP
* Shell and Python scripting
* Linux, Unix and MS Windows 2008 R2 platforms
* Virtualisation and cloud hosting
* Security and penetration testing
* Core IP network design, validation and acceptance
* Operations handover and war gaming
* Architectural governance, compliance, scoping, analysis ...etc.
* Apigee

**Jan 14 – Feb 16, Lead Architect, Vodafone Group LTD**

UC, Conferencing and Cloud and Collaboration, Converged Products

Reporting to the Head of Unified Communication, role is to lead and deliver business-critical conferencing products, based around Pexip, Acano, Cisco UC suit, Microsoft Skype for Business, Microsoft O365, Video Conferencing and VoIP domains, world-wide. Architecture authority of the entire aspects of this major group, with a number of inter-related products and on-going projects at any point in time.

Tasks included:

* Roadmap and strategy ownership
* Product and technology strategy development and leadership
* Business case input and buy-in
* Senior stakeholder communication
* Team leadership in a matrix environment
* Requirements Capture
* Production of Functional Requirements Specification (FRS)
* Iterative document production
* Production of architecture blueprints for a conferencing abstraction layer across the Vodafone Enterprise offering
* Production of High Level and Low-Level Design Documents (HLD/LLD)
* Production of end-end test strategies
* Authority on core IP network design validation, MPLS interconnects, SIP flow designs …etc.
* Leadership and influence of final products
* Leading RFIs, RFQs and Vendor Selection
* Contract Negotiation
* Procurement

Skills Highlight

* Detailed knowledge of and expertise in web services and systems from authentication mechanisms all the way to web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates …etc
* Very large scale, mission-critical systems , underpinning the entire lifecycle of hydrocarbon energy production from mining to upstream and international delivery of services.
* C, C++, Python and Java Script Development
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* AWS Cloud, Cloud Automation and monitoring tools (e.g. Puppet, AWS Lambda, AWS Config, Ansible)
* Cisco UC suit, Cisco VCS, Cisco Jabber, Cisco CMR and Cloud-based conferencing
* Microsoft Lync, O365 Cloud and Hybrid, Skype for Business …etc.
* Multi-tenant deployments of complex, disparate and hybrid conferencing solutions
* Pexip Infinity
* Fixed and Mobile network integration over IP
* Shell and Python scripting
* Linux, Unix and MS Windows 2008 R2 platforms
* Virtualisation and cloud hosting
* Security and penetration testing
* Core IP network design, validation and acceptance
* Operations handover and war gaming
* Architectural governance, scoping, analysis ...etc. etc.
* Agee – Cross-cloud, portal, RESTful

**Feb 13 – Jan 14, Lead Architect, Vodafone Group LTD**

UC, Conferencing and Cloud and Collaboration, Converged Products

Reporting to the Head of Unified Communication, role is to lead and deliver business-critical conferencing products, based around Pexip, Acano, Cisco UC suit, Microsoft Skype for Business, Microsoft O365, Video Conferencing and VoIP domains, world-wide. Architecture authority of the entire aspects of this major group, with a number of inter-related products and on-going projects at any point in time.

Tasks included:

* Roadmap and strategy ownership
* Product and technology strategy development and leadership
* Lawful Intercept (LI) interfacing, testing and compliance in both the Packet and TDM domains
* Business case input and buy-in
* Senior stakeholder communication
* Team leadership in a matrix environment
* Requirements Capture
* Production of Functional Requirements Specification (FRS)
* Iterative document production
* Production of architecture blue prints for Video Conferencing, Cisco UC and Lync conferencing integration, VoIP, WebRTC and VONE integration across a wide and varied video conferencing and other end points.
* Production of architecture blueprints for a conferencing abstraction layer across the Vodafone Enterprise offering
* Production of High Level and Low-Level Design Documents (HLD/LLD)
* Production of end-end test strategies
* Authority on core IP network design validation, MPLS interconnects, SIP flow designs …etc.
* Leadership and influence of final products
* Leading RFIs, RFQs and Vendor Selection
* Contract Negotiation
* Procurement

Skills Highlight

* C, C++, Python and Java Script Development
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* AWS Cloud, Cloud Automation and monitoring tools (e.g. Puppet, AWS Lambda, AWS Config, Ansible)
* Very large scale, mission-critical systems, spanning the width and breadth of heterogenous conferencing systems, delivered to both end customers and white-labelled for partners and resellers.
* Detailed knowledge of and expertise in web services and systems from authentication mechanisms all the way to web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates …etc
* Fixed and Mobile network integration over IP
* Shell and Python scripting
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* Cisco UC suit, Cisco VCS, Cisco Jabber, Cisco CMR and Cloud-based conferencing
* Microsoft Lync, O365 Cloud and Hybrid, Skype for Business …etc.
* Multi-tenant deployments of complex, disparate and hybrid conferencing solutions
* Pexip Infinity
* Linux, Unix and MS Windows 2008 R2 platforms
* Virtualisation and cloud hosting
* Security and penetration testing
* Core IP network design, validation and acceptance
* Operations handover and war gaming
* Architectural governance, scoping, analysis ...etc.
* Agee – Cross-cloud, portal, RESTful

**May 12 – Jan 13, Lead Architect/Tech. Program Management, Telefonica UK LTD (O2)**

Engaged to lead and deliver a critical path work stream in the VoIP sphere within O2 UK. Architecture authority of the entire aspects of a major work stream, with three inter-related projects.

Tasks included:

* Split role technical program management and architecture
* Business case production and stakeholder buy-in
* Internal and external customer-centric communication
* Requirements Capture
* Production of Functional Requirements Specification (FRS)
* Production of High Level and Low-Level Design Documents (HLD/LLD)
* Production of test strategies
* Contract Negotiation
* Procurement
* Leadership and influence of final products

Net result of the program culminated in delivering the O2 Tu Go unified communications product

Skills Highlight:

* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* Fixed and Mobile network integration over IP
* Linux, Unix and MS Windows 2008 R2 platforms
* Virtualisation and cloud hosting
* Security, compliance and penetration testing
* Core IP network design, validation, compliance and acceptance
* Operations handover and war gaming
* Architectural governance, scoping, analysis ...etc.
* Technical program management

**Aug 11 - May 12, Lead Architect & Program Manager, MEDCO Engineering and Modelling**

MEDCO was founded in 1992 to offer consultancy and software to coiled tubing companies. Industry leader in hardware/software solutions to major energy, oil and gas well servicing companies. Recruited to fulfil a split-task role, where expertise in systems and network architecture needed to go hand in hand with very strong program and project management skills.

Tasks included:

* Technology leadership and process re-engineering for the energy hydrocarbon industry
* Oversee the design, proof of concept and implementation of an intricate SCADA (Supervisory Control and Data Acquisition System) for a major client
* Production of architectural, High Level and Low-Level Design documents
* Design and prototype development of a data logging and SCADA embedded system created around Freescale i.MX28 SoC running a tailored Linux distro generated through the Yocto Project framework
* Design and prove reliable data transport mechanisms and account for major security requirements necessary for complex compliance requirements.
* Lead six in-house specialists, comprising two full-time electronics and electrical hardware engineers, one mechanical engineer, two software developers and one network engineer.
* Off-shore resources based in the Far East, as well as field-based resources delivering a variety of activities and possessing different skills
* Contract Negotiation
* Procurement
* Supplier Vetting

Skills Highlight:

* Detailed knowledge of and expertise in web services and systems from authentication mechanisms all the way to web servers, application servers, databases, transactional systems, content management systems, operating systems, HTTPS, SOAP, JSON, XML, Web Services, RESTful APIs, PKI, TLS, Certificates …etc
* Very large scale, mission- and life-critical system, underpinning the entire lifecycle of hydrocarbon energy production from mining to upstream and international delivery of services.
* Integration interfaces (REST, SOAP, JSON, XML …etc.)
* OSS and customer-facing portal architecture and development with LAMP + Tomcat core/MySQL/PostgresSQL
* Fixed and Mobile network integration over IP
* Shell and Python scripting
* C/C++ development
* Ruby on Rails integration
* Embedded software and hardware development (ARM9/11 + Linux 3.x kernel under Yocto)
* Virtualisation and cloud hosting
* Security and penetration testing
* Core IP network design, validation and acceptance
* Operations handover and war gaming
* Architectural governance, scoping, analysis ...etc.

**Aug 10 - Jul 11 PMO Technical Domain Architect, Global Infrastructure, AXIS Insurance**

Part of the AXIS Group of companies, AXIS Capital is a very successful specialist global insurance and treaty reinsurance organisation. As of September 2010, AXIS Capital reported over $5.8 billion equity, with HQ in Bermuda, 14 US offices and global presence in Europe, Australia and Asia.

Tasks included:

* Facilitation and execution of Telecommunication and IT infrastructure programs, with two permanent Project Managers as direct reports, and access to a pool of over 200 on-demand project technical resource pools, with varying number of resources and functional reports
* Direct interaction at both board level and senior management across the organisation, as well as low-level discussion with on-the-ground technical resources to produce effective design documents in a short space of time
* Program Leadership, planning, procurement, budget control and production of resource maps
* Aspects relating to large network application upgrades and implementations, both bespoke and industry standard software, server farms, Data Centre consolidation and migration, MS-Exchange 2010/2007/2003 migration and fortification projects, Microsoft Lync, Microsoft AD, Identity Management and CRM Integration, SAN/DR build-outs domestically and globally, messaging platform upgrades, data centre builds, protection and consolidation.
* Representing Global Infrastructure on the Change Advisory Board
* Internal and external negotiations, conflict resolution and communication leadership during major incidents
* Develop and champion Automated Test Framework Builds for both applications and infrastructures with completely bespoke test harnesses constructed from scratch
* Lead the implementation of two major organisation-wide, high-volume transactional systems with time-, security- and compliance-critical aspects
* Contract Negotiation
* Procurement
* Supplier Vetting
* Direct control of budgets totalling over $95 million.

Skills Highlight:

* MS Back Office Stack
* Integration in a Microsoft-centric paradigm, with bespoke high-performance computing platforms from Oracle and IBM
* Distributed secure storage designs based around NetApp
* DR, security and compliance
* Program management

**Apr 09 - Jul 10, Enterprise Computing Architect, Perot Systems, on behalf of Hamad Medical Foundation, Doha, Qatar**

Perot Systems is a leading global consulting and solutions provider for public services, with a long track record of delivering expertise in public health care.

This assignment was part of an overarching project to bring enterprise systems and processes in line with drive for excellence in the Hamad Medical Foundation (HMC), Qatar.

Duties included:

* Acting in a split role which included SME and Project Management components
* Procurement, Supplier Vetting, Contract Negotiation
* Primary focus as Enterprise Computing Architect was a wide-reaching remit to provide an architecture to accommodate ITIL and all associated processes, analyse applications, technology
* Perform Current, Gap and Future State analysis towards achieving a fully compliant system
* Working with stake holders and other SMEs to ensure business and IT requirements were aligned
* Providing SME skills in the area of systems and network architecture to allow Current, Gap and Future state deliverables to take place
* Design systems, networks and supporting services to Medical Grade requirements, which presented an interesting set of challenges given restrictions on the ground, the state of telecoms regulations and a less than mature internal infrastructure
* Applied TOGAF as core computing architecture methodology
* Consolidation and migration of the MS-Exchange architecture from 2003 to 2007, Microsoft Lync, Microsoft AD, Identity Management, change control and Technical Advisory Board steer
* Run certain projects were run in an AGILE (SCRUM) environment due to crossover with software development

**Nov 08 - Feb 09, Acting CTO, Advanced Business Communications (Europe) LTD**

Recruited by a young telecoms company undergoing major transformation and expansion, my role was to make major technology decisions, establish best practices and processes, recruit a suitable team and execute a large converged (voice/video/data) routing and delivery platform.

Achievements included:

* Built platforms around Sun hardware running a mixture of SunCluster (SunOS UNIX) and Linux, with Oracle and MySQL back-end databases
* Responsibility design, architecture, vendor vetting, contract negotiations, implementation and Transfer of Knowledge (ToK) through a continuous education and training program
* Contract Negotiation and Supplier Vetting
* Challenging and interesting role that culminated with an offer of permanent employment, declined for personal reasons

**Jun 08 - Nov 08, Sysadmin Group Manager, APT SUNGARD**

With hundreds of institutional clients including asset managers, hedge funds, broker/dealers, pension funds, and traders, APT is a leading, global investment technology provider. APT develops and distributes market- and credit-risk models and software applications. With offices in eight locations and risk models for every market and asset class, it offers true, international risk management.

Role included:

* Recruited to help provide expertise across a wide range of IT, telecoms and technology operations, reporting to the operations director and managing director directly
* Leading a young team of 3 sysadmins
* Wide and varying role across not only a wide range of technologies, but also providing delivery remodelling, people management, change control processes, technical consultancy, documentation and security practices fit for the financial industry
* Challenging and interesting role providing essential drive in a Matrix organisational environment
* Overall review of IT infrastructure across hardware, software, providers and best practices
* Designed, implemented and championed Automated Test Frameworks, both application- and network-centric.
* Contract Negotiation
* Procurement and Supplier Vetting

**Nov 07 - Jun 08, Project Manager – Key Accounts, eServe Global for Du Telecom, Dubai, UAE and Mobistar Communications, Brussels, Belgium**

Du was the first competitive licensee in the UAE with paid-up capital in excess of $1bn.

Role entailed:

Du was the first competitive licensee in the UAE with paid-up capital in excess of $1bn.

Role entailed:

• Takeover and direct control of a large, complex and intricate stream of work to deliver a next-generation IN platform, across multiple hardware platforms (predominantly Sun), vendors (including Nokia, Sun, HP, Tibco) and locations (6 Emirates, with regional expansion planned during Q3 2007)

• Responsible for all aspects of technical and non-technical project management, including customer/vendor interface, planning, risk assessment, budgeting, interlocking and change control through Change Control Committee membership, resource management, presentations and staff appraisal as well as contribution into the solution architecture

• One of the most challenging aspects of both programs were Location Registers (both Home and Visitor registers), since these not only needed to be High-volume Transactional Systems but also needed to cope with very fast-rates of transactions at up to 120-transactions per second, and some 20% - 30% transaction margins on the core Oracle and Ingress databases

• An Automatic Test Framework system needed to be in place for practically every aspect of deployments, together with a rigorous UAT processes

**Jan 05 - Jun 06 TDA and Project Manager, NG-IN Transformation, Cable and Wireless Communications, Brentford, UK**