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Solution Architect and integrator with 25 years' experience developing and executing delivery of converged building management systems onto IT based network infrastructures using Cisco and HP equipment for companies such as Honeywell, N G Bailey, CISCO, Johnson Controls Siemens Rail Automation.. Worked on pre sales support and delivery for Wembley National Stadium, Emirates Stadium and Grosvenor estates Liverpool One development. Lead system integration design for Ryadh Metro and Northampton County Council offices, Northampton. Lead BMS design for Santander, Digital Realty and Equinix Frankfurt Data Centres. Lead BMS consultant for Amazon Europe BMS implementation. Lead Engineer for No1 Poultry, City of London. BMS Assurance Consultant for Crossrail Paddington. Define target architectures and roadmaps in the light of key business and technology drivers, through understanding the current landscape and appropriate options analysis. Leader of architecture and multi-disciplinary teams. Systems and products worked with and have vendor training for include, CISCO CCNA, Honeywell EBI/DVM, Milestone X-Protect, Pelco Endura, VidSys VidShield, Tridium Niagara AX, Tridium VYKON Security, Tridium N4, Trend Control Systems and CISCO Energywise. Requirement management utilising IBM Relational Doors.

Areas of Expertise

Key Skill Sets

- Lead the initial high level architecture design from pre-sales through to delivery and design leadership for Wembley Stadium, Emirates stadium and the Liverpool One retail campus.
- Detailed knowledge of the implementation of Integrated Building Management Systems including Fire, Security, CCTV, HVAC Control, CO2 emissions, energy and sustainability management and monitoring systems, into converged IT networks.
- Experience from the application level up to and including full IT network architecture design, implementation, and commissioning plus technical solutions for external customers.
- Worked extensively with third party and open system protocols, including OPC, BACnet, Profibus, Modbus, KNX, Allen Bradley and LonWorks as well as digital IP based CCTV, Access control systems, intruder detection systems and OnVif open IP physical security protocol.
- Requirement management using IBM Relational Doors.

Leadership

- Shaped and managed high performing architecture teams: defined system architectures and deliverables; prioritised responses to high demand; embedded architecture within the delivery lifecycle; focused on coaching & talent management.
- Guides delivery using the role of Design Authority, formal reviews and coaching.

Business & Client Relationships

- Worked with external companies, employees and contractors in different time zones.
- A team player, shares knowledge, includes and accepts all team members.
- Customer focused, confirms customer satisfaction, managing expectations and commitments.

Stakeholder Management

- Delivered to director level at Wembley National Stadium Ltd, Grovesnor Estates and Centocor Biologics.
- Built good solid trusting business relationships with these individuals.
- Comfortable in communication at all levels be it strategic direction or at a technical level.

Marketing Knowledge

- Developed marketing documentation and data sheets for NG Bailey for the life in buildings program.
- Developed marketing presentation and documentation for NG Bailey during the Building Schools for the future program.

Solution Architecture

- Developed the viable architecture for implementing converged IT network infrastructures for Wembley Stadium and Liverpool one.
- Developed architecture model for documentation and key deliverables for Centocor Biologics and Wyeth Biopharma in the extremely regulated and quality control environment of the pharmaceutical industry.
- Responsible for rolling out processes applied to pharmaceutical projects to less regulated commercial projects for efficient and consistent project delivery and customer satisfaction.

Supplier Management

- Accomplished in managing partners and product vendors.
- Experienced in the formal selection of products.

Technical Training, Coaching & Mentoring

- Developed technical training courses and materials including presentation and handout manual for in house staff and customers.
- Delivered technical training courses and seminars to audiences up to 65 delegates.

Career History

Current Employment

Name: Advanced Control Solutions: **Dates:** 29/11/2018 – Present **Job Title:** Service Engineer

Responsibilities:

- Perform general maintenance and call out for BMS systems
- Manage on site project schedules and budgets to ensure project meets projected margin.

Previous Employment

Name: Critical Control Systems: **Dates:** 30/07/2018 – 26/10/18 **Job Title:** Project Manager (Made Redundant)

Responsibilities:

- Perform high level integration with 3rd party systems e.g. Chillers, Packaged AHU's, boilers meters and natural ventilation systems using Trend and Tridium products with the following protocols, BACnet, Modbus and M-Bus.
- Manage on site project schedules and budgets to ensure project meets projected margin.
- Develop descriptions of operations, system architecture specifications, Architecture design drawings.
- Develop application software and supervisor graphics
- Select, raise orders, organise and supervise subcontractors for control panel build and control wiring installation.
- Act as liaison between CCS and Main contractor by attending project meetings and on site discussions on site.
- Ensure contract terms and conditions are favorable to CCS in general and all terms and conditions are negotiated and met.
- Perform complex negotiations with commercial matters.

Key Achievements

- Project Manager for Barbaham Cambridge laboratories worth 360K. work included liaison with main contractor, selection, ordering and supervising the control panel construction and control electrical wiring installation on site.

Name: WSP Rail **Dates:** 02/06/2018 – 27/07/2018 **Job Title:** BMS Consultant (Contract)

Responsibilities:

- Perform quality assurance for documentation, Drawings and BMS Design for Cross Rail Consultant at Paddington.
- Develop and create performance specification in line with customer requirements for Communications package e.g. CCTV Access Control and Security.
- Develop integration descriptions of operations, system architecture specifications, Architecture design drawings.
- Perform witness testing on behalf of client.

Key Achievements

- Key person for providing BMS technical assurance skills for the development and implementation of Cross Rail Paddington BMS.

Name: ADG Ltd: **Dates:** 02/01/2018 – 25/5/2018 **Job Title:** Project Engineer

Responsibilities:

- Perform high level integration with 3rd party systems e.g. Chillers, Packaged AHU's, boilers meters and natural ventilation systems using Trend and Tridium products with the following protocols, BACnet, Modbus and M-Bus.
- Manage on site project schedules and budgets.
- Develop integration descriptions of operations, system architecture specifications, Architecture design drawings.
- Develop application software and supervisor graphics

Key Achievements

- Key person for designing and implementing integration packages with chillers, boilers, packaged AHU's and application development for optimum energy efficiency at No1 Poultry City of London.

Name: Current by GE **Dates:** 01/09/2017 – 16/12/2017 **Job Title:** BMS Consultant (Contract)

Responsibilities:

- Develop and create performance specification in line with customer requirements.
- Manage on site project schedules and budgets.
- Manage and Supervise Sub Contract BMS installers and BMS installation.
- Develop integration descriptions of operations, system architecture specifications, Architecture design drawings.
- Develop BMS test specifications and BMS Bid documentation.
- Perform witness testing on behalf of client.
- Key specifier of products to be used for Amazon Europe.

Key Achievements

- Key person for providing BMS technical knowledge and skills for the development and implementation of Amazon Europe wide BMS.

Name: TFTull Ltd: **Dates:** 01/04/2016 – 30/8/2017 **Job Title:** Integration Engineer

Responsibilities:

- Perform high level integration with 3rd party systems e.g. Chillers, Packaged AHU's, boilers meters and natural ventilation systems using Trend, Tridium and North products with the following protocols, BACnet, Modbus, M-Bus and KNX.
- Manage on site project schedules and budgets.
- Develop integration descriptions of operations, system architecture specifications, Architecture design drawings

Key Achievements

- Key person for designing and implementing integration packages with natural vent system, chillers, boilers, packaged AHU's and lighting controls for optimum energy efficiency at Northampton County Council Offices.

Name: Siemens Rail Automation: **Dates:** 17/3/2014 – 31/03/2016 **Job Title:** Specialist Integration Engineer

Responsibilities:

- Perform technical design and material take offs for Rail Automation SCADA systems.
- Manage project schedules and budgets.
- Develop functional specifications, detailed design specifications, system architecture specifications, Architecture design drawings and application software for SCADA projects.
- Requirement Management utilising IBM Relational Doors

Key Achievements

- Key person for programming and integrating the Siemens RailCom SCADA system for the Ryadh Metro in Saudi Arabia.

Name: ABEC Controls LTD: **Dates:** 18/3/2013 – 14/3/2014 **Job Title:** Project Engineer

Responsibilities:

- Perform technical design and material take offs for BMS systems.
- Manage project schedules and budgets.
- Develop functional specifications, design drawings and application software for BMS projects.
- Coordinate with M&E contractors and manage installation sub-contractors on site.
- Perform integration of energy metering systems with BMS systems.

Key Achievements

- Key person for programming and integrating the WAGO PLC control system for Equinix data centre in Frankfurt and bringing the WAGO PLC point data into the Wonderware SCADA system.

Name: Johnson Controls: **Dates:** 03/1/2012 – 14/3/2013 **Job Title:** Project Development Engineer (Made Redundant)

Responsibilities:

- Assist and support sales and marketing teams with technical expertise and solution development during pre-contract negotiations.
- Perform technical design and material take offs for BMS projects.
- Manage project schedules and budgets.
- Develop functional specifications, design drawings and application software for BMS projects.

- Coordinate with M&E contractors and manage installation sub-contractors on site.

Key Achievements

- Key person for programming and integrating the Cisco S+CRE project at Bedfont Lakes which included room control from IP telephony.
- Key person for facilitating the joint JCI/Cisco partnership demonstration facility at Cisco Executive Briefing Centre comprising of Cisco technology and JCI BMS, CCTV and Access Control offerings.

Name: CISCO Systems: **Dates:** 03/01/2011 – 25/11/2011 **Job Title:** Solution Architect (Made Redundant)

Responsibilities:

- The Solution Architect for Integration, Safety and Security solutions works closely with:
- Account teams and delivery personnel to ensure proper definition and positioning of solutions built on Cisco technologies and product sets.
- Account teams and delivery personnel to support and/or lead a number of functions within CISCO standard sales/delivery lifecycle.
- Customer and Cisco resources to deliver Architecture focused Workshops and discussions.
- Customer and Cisco resources in a lead role to develop business cases and financial ROI models on behalf of the customer in support of solution based proposals.

Key Achievements

- Key person for conducting site surveys and producing current state future roadmap documentation for physical security systems at multiple USAA sites in the United States.
- Major Player in design team for the IP based surveillance solution on the @22 project in Barcelona Spain based around the VidSys VidShield PSIM platform.

Name: NG Bailey Ltd. **Dates:** 02/2009 – 12/2010 **Job Title:** Technical Development Manager (Made Redundant)

Responsibilities:

Integrated solutions – Take initial client needs from concept through to online systems solution to include supplier product selection, operational strategy, best method of delivery and outline costings. Technical Strategy Development – take ownership for the technical development strategy & roadmap for NG Bailey group intelligent building integrated systems proposition. Technical Excellence and Knowledge Management – Ensure the available of technical knowledge, support and capability that differentiate Bailey Systems as the UK market leader in Building and business systems integration. Recently completed design and implementation of large £1.3M integrated system project, Union Square Aberdeen, a shopping mall consisting of IP CCTV, Access, Security, Fire and BMS.

Key Achievements

- Solution Architect responsible for design and implementation of converged and integrated building systems at Union Square Aberdeen to customer's satisfaction.
- Provided major pre-sales support for the Luton BSF project enabling N G Bailey to win the project.
- Key player in the delivery of the converged and integrated systems from pre-sales right through to customer hand over of the new Coleg Gwent, Crosskeys campus.

Name: Honeywell Control Systems Ltd – Building Solutions **Dates:** 5/1987- 2/2009
(various positions) **Job Title** Solution Architect (Made Redundant)

Responsibilities:

Principal Design Engineer for BMS & security systems at the new Liverpool One development, Johnson & Johnson Centocor Biotechnologies, Cork facility, Wembley stadium and Wyeth Biopharma campus, Grange Castle in Dublin. Full life-cycle design responsibility for the System Architecture designs (Enterprise Level and Local Control Architectures), Global System Functional Specs, Global System Detail Design, validation specifications, etc, and to ensure system design meets cGMP practices, specifications and FDA 21 CFR Part 11. Had responsibility for the development, test, and subsequent commissioning of the Enterprise Level Systems and provided consultancy to the engineering team in the design, implementation, and test of standard application software schemes.

Key Achievements

- Principal design lead for Wembley National stadium which was delivered on time and on budget from a Honeywell perspective and to the customers satisfaction.
- Major player in design team for the IP based converged IP solution on the Liverpool One project.

Job Title: Training & Technical Support Specialist, Northern Europe and South Africa.

Responsibilities:

Assisting Company Marketing, Sales, Engineering and Partners with the introduction, implementation and support of new products and systems. Providing technical direction for the application of Building Management, Fire, Security, & PLC systems implementation on very large and complicated projects across a variety of Industries. Provide specialist product, system, and technical applications based training and training course development to Honeywell Engineering, Customers, and Systems House staff, customer demonstration and solution development for products.

Other Positions Held

Other previous positions held include Senior Application Engineer at Honeywell Control Systems, commissioning and service engineer for Satchwell Control Systems, Technical Officer for the Property Services Agency (PSA) and Electrician and Wireman for Ferranti Computer Systems.

Completed a full engineering apprenticeship with Ferranti Computer Systems which included a one year EITB off the job training at Bracknell technical college.

Qualifications

- City & Guilds and Radio and TV mechanics
- City & Guilds Electrical Installation PT1
- City & Guilds Electrical Installation PT2
- ONC Electrical & Electronic Engineering
- HNC Electrical & Electronic Engineering

Professional Training

- CISCO Certified Network Associate (CCNA)
- Microsoft Certified Systems Engineer (MSCE)
- Six Sigma Green Belt Certified
- Echelon Certified Integration Engineer.
- Echelon Certified LNS Integration Engineer
- Tridium Niagara AX Certification
- Milestone X-Protect Advanced Certification
- Tridium VYKON Security Certification
- VidSys VidShield Certification
- TREND Expert Certification
- Tridium AX to N4 Update

Achievements

- Honeywell Winners Club prize for Technical Achievement 1999
- Honeywell Eurotech Award for outstanding technical problem solving 1998
- Ferranti Apprentice of the Year for outstanding academic studies.

Hobbies: Weight training and general fitness, Rugby, photography, computers, motorcycling, hill, mountain walking and motorcycle maintenance.

Languages: English, German and Portuguese.

Driver's Licence: Full car and motorcycle with no endorsements