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# MIKE SANDERS

PLM, CAD & COSTING SOLUTION SPECIALIST

Glossop, Derbyshire, UK.

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## Summary

Graduate Engineer/ IT professional with a huge breadth of experience across the PLM / CAD-CAM & Costing/Estimating in the Manufacturing & Industrial IT sector:-

Business Analysis, Full Software Life Cycle:- From Market Analysis and Requirements gathering /Stakeholder engagement, organising Implementation, through to Testing and Rollout.

Software Architecture, Digital Strategy

Third-Party relationship management (both reseller channel and IT subcontracting)

Design of PLM / CAD-CAM / Document Management / Costing / Industrial Services / Relational Database solutions, and their subsequent, testing, deployment and entry into service. Conversant with both Waterfall and Agile/Scrum Implementation Methodologies.

Business Needs Analysis, Customer Experience Analysis & Implementing requisite Solutions and/or Business Process Re-engineering.

Strong technical communicator - able to extract information from and convey clear information to users, technical experts & management representatives alike. Cross-discipline player with wide range of experience.

Broad knowledge of current and past CAD/CAM offerings, worked with Applicon\*, AutoCAD and Inventor, Cadds\*, Catia, Creo/Pro-Eng\*, Designview\*, Medusa\*, Mentor, OnShape, Radan, SolidEdge, Solidworks\*, Synopsys, UG/NX over the years. \*=expert/specialist user

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## Key Skills

### Business Analyst / Software Architect

Full Life Cycle. From requirements gathering through to software release / deployment

### Programmer / Configurator / DBM

Coded in many web based and proprietary languages. Configured and managed Database applications

### Project Manager / Team Leader

Project Managed software installations, upgrades and managed third party and in-house teams

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## Professional Experience

### Bilfinger UK Limited Business Analyst

Warrington  
Nov 2021-Present

Support Role for web based Maintenance Database, including:-

Technical Assessment of Functional Design Specifications from client sites

Instructing Third-Party Programming Staff on Implementation Details, Technical Acceptance Testing and rollout of software implementations to client site teams.

Support Desk Implementation & Ownership. Day to day support tasks and constant improvement to tools and processes ~ including organising development of new support tools

### MS PLM Limited Self Employed Consultancy

Glossop, Derbyshire.  
Oct 2018-Apr 2022

Own Limited Company for handling contracting engagements.

### Dialog Semiconductor CAD Support Engineer ~ Contract

Swindon & Home Based  
Jun 2019-Jun 2021

Internal Database driven Web Application Maintenance and Development, Supporting an internal Synchronicity ProjectSync (Dassault) database.

Requirements Analysis and hands-on implementation, Javascript, Linux, Bash, HTML, PHP, Perl etc

Installation / Support to the business of CAD Tools Synopsys / Mentor etc.

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## DXC Technology

SAP PLM Application Consultant ~ Security Cleared ~ Contract

Chorley  
Dec 2018-Jun 2019

Troubleshooting ~ Analysis of Technical SAP PLM Problems / Change Requests

Change Management ~ Creation of Change Request / Change Documentation and Estimates,  
Liaison with ABAP programming staff, Test coordination and release to production.

Knowledge Transfer to other team members.

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## aPriori Technology

Implementation Engineer/Consultant

Home Based with WW Customer/Business Travel  
Jan 2014-May 2018

Implementation role, including:-

Requirements gathering from Customers (remote and on-site) & Preparation of Technical Specifications  
/ Options for customers.

Implementation of functional changes to aPriori's Financial Cost Model, Cost Reporting etc..

Calibration of Financial Cost Models (either CAD driven or linked to Wire Harness/PCBA BOMs) to better  
reflect real life costing data. Use CAD (mainly Solidworks) to create/modify test case models where  
necessary.

Successful deployments throughout the world, from projector/large screen manufacturers in Belgium to  
elevator manufacturers in Brazil.

Working with Financial Cost Modelling Agile teams to feedback customer concerns and implement field  
discovered improvements into central cost models. Work on sprint planning /show and tells etc on  
various manufacturing processes and costing applications.

Customer champion feeding back new requests / discovered bugs into the JIRA reporting system.

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## Waters Corporation

PLM Business Analyst

Manchester  
Dec 2007-Dec 2013

Full PLM Software Development Life Cycle Implementation / Governance role, including:-

Help establishing SAP PLM based digital strategy, requirements gathering from Business Stakeholders,  
understanding the requirements of future users/customers. Market Research and Competitor analysis  
to ensure best practices used.

Preparation of Requirements Specifications, Discussion of Technical options with both in-house and  
third party developers, Validation Plans, Test Plans, both Waterfall and Agile approaches used.

Major Achievement at Waters was the introduction of a new Dynamic Document Approval add on to  
the Company SAP PLM system. Also additions to the SAP Engineering Change System, ERP interaction.

Unit testing and feedback to programmers, Organisation of Validation test teams, test Protocol writing  
and coordination.

Software rollout, release training and associated communications (web, user guides, customer surveys  
etc..).

Ongoing Support, Education and Training of user community. Understanding Customer experience and  
running through worked examples/journeys to feed into the next cycle.

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## MX-Tech Limited

Self Employed Consultancy

Glossop  
Jan 2002-Nov 2007

Independent I.T. Consultancy. Training, Project Management, Process Analysis, Implementations.

Successful Web Designer for local business. Good SEO results.

Training / Consultancy provider on PTC CAD products. Examples include giving training courses in  
Korea, USA, UK etc and Wire Harness feasibility study for Volvo Truck in Sweden.

Long term PM and technical contracts accepted during this time were:-

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## Liverpool Direct Limited

ICT Project Group, Project Manager ~ Contract

Liverpool  
Mar 2007-Sep 2007

Multi ICT Project Management, Software and Infrastructure

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## Airbus

Project Manager ~ Security Cleared ~ Contract

Filton, Bristol  
Mar 2005-Mar 2007

Project Management of software roll-outs to Airbus UK's manufacturing Partners

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## Ultra Electronics

Consultant ~ Security Cleared ~ Contract

Rugeley  
Nov 2003-Mar 2005

Routed System Designer CAD ~ Wire Harness / Document Management etc ~ Technical  
Consultancy

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**Assistant Product Line Manager (Medusa & RSD)**

2000-2001

Key Architect of new CAD OO schematic diagram software, (Routed System designer ~ RSD ~ meta data embedded product, Wiring Diagrams, Cable terminations etc) , which replaced 5 obsolete products. Full life Cycle Development under our control.

Represented company at customer facing meetings worldwide – Gathered customer needs analysis and presented users on product direction and strategy. CAD Product Architect.

Technical Project Manager on major account engagements - including Rolls Royce & Airbus

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**Implementation Consultant(Medusa, Medinfo, Optegra, Windchill)**

1995-1999

Successfully prospected consultancy and identified customers' business drivers to scope, define architect & implement (or have implemented) customer software customisations (PLM/database/Cad-Cam etc) - Highly profitable division (190+ days per annum utilisation, average daily fee charged £820)

Sourced and briefed programming teams (including using outsourced overseas staff).

Engagement with customer (from operator through to board level) to engineer the business changes required and then train the recipients of that change.

Worked in PDM and Large Scale database applications. Office and/or Customer site based...

Designed Architecture of unique Product Configuration Software used by Alstom.  
Trained User Base.

Helped Design & implement Associate Items Database & Interface for Marconi Marine  
PDM customisations at various Rolls Royce IPG group members (e.g. Control systems, Allen Power, Reyrolle etc... often including roll in of data from legacy /third party systems)

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**Indirect Channel Technical Support.**

1992-1994

Helped establish new Value Added Reseller Channel for CAD and PDM. Provide Technical Support and demonstrations to new Partners. Trained/Developed/Worked with 3rd Party personnel.

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**Customer Support Engineer.**

1990-1992

On site at shoulder support/maintenance of customer CAD/PDM installations. Data integration, Back-Office investigation of problems, submission of bug reports and customer telephone support.

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**Sales Support Engineer.**

1986-1990

Demonstrating CAD Software to Customers. Preparing both bespoke and standard software demonstrations. Answering technical queries to facilitate software sales.

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**Ferranti Microelectronics**  
Various Roles (see below)

Oldham  
1981-1986

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**Microchip Design Engineer.**

1984-1986

Engineering of bespoke ULA microchips, overseeing customer design requirements, guiding design through CAD/CAM dept. to prototype stage. Physical testing & approval of prototype chips. Release to Manufacture... Dealing with any production failures/shortfalls/re-designs.

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**Business Analyst**

1983-1984

Ensuring that the in-house developed simulation and CAD diagramming software fully fulfilled the requirements of the Engineering Department. Successful release of internal CAD system and associated Business Practice Changes.

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**CAD Operator**

1981-1983

Engineering Data Entry to CAD-CAM system. System Management Tasks. Optimisation of routine tasks via script writing /menu creation & best practice techniques.

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Education

Numerous Vocational Courses

(throughout career)  
CSL & CMWB (aPriori Proprietary), Java, VB, RSD, Optegra, CADDs, Medusa, Presentation Skills, Time Management, Project Management, Windows, Solaris, Windchill, SAP ABAP, SAP PLM, Full Stack Javascript

Engineering Science Degree

(1981) Exeter College, Oxford University, III class  
General multi-discipline Engineering Degree, covering Maths & IT, as well as Materials Science, Civil, Mechanical, Electrical & Electronic Engineering and Business Principles.

'A' Levels

(1978) Glossop School  
Maths A, Further Maths B, Physics B, General Studies A

'O' Levels

(1976) Glossop School  
6A's, 1B, 1C

Programming Languages / Protocols used (Over Career)

HTML	GUI Design	SQL, PL/SQL, DBA
CSS	(Motif, Windows, Web apps, SAP)	VB / VBA
Javascript	C/C++/some C#	Unix/Linux scripting
jScript	Java	bash / sed / awk / except etc.
PHP	Proprietary Languages	Version Control Systems
Perl	e.g Medusa=Basis / aPriori=CML	Git / Subversion / DesignSync
XML	SAP=some ABAP etc.	Implementation Methodologies
some Python	UML Process Modelling	Waterfall and Agile regimes
PBI (inc DAX programming)		

About Me

Full Name

Michael Sanders

Personal Status

Married with 2 grown up children, 3 Grandchildren ~ UK Citizen ~ Full Passport.

Other Information

Full UK Driving License. Prepared to travel extensively (if required)... however not seeking relocation at this time.

Outside Work

Hill walker... Enjoy cooking for family and friends... Grandad...