

~ PERSONAL DETAILS ~



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Date of Birth: 25 August 1978

Marital Status: Happily

Driving License: Full, UK

ACADEMIC ACHIEVEMENTS

June 2001	HNC Engineering: Electrical	Stow College, Glasgow
June 1997	NC: Electrical and Electronic Engineering	Stow College, Glasgow
April 1996	ECITB General Engineering Appreciation	METCOM, Paisley

PROFESSIONAL EXPERIENCE OVERVIEW

I have 15 years experience in Electrical, Control and Instrumentation design of mainly Oil & Gas, Petrochemical, Pharmaceutical and LNG process plants using Microstation, AutoCAD, Raceway, PDS and PDMS.

Project Caribou at BP Grangemouth also introduced me into the realms of Network Telecommunications and cabinet internal layouts. As part of this I completed the BP RAP course for Risk Assessed Permits to conduct surveys and safely take digital photographs and the HV Substation inductions to access restricted areas.

Additionally, I spent a year intricately detailing every power, control and combat system on board the warfare ship HMS Ark Royal for the MoD into an interactive HTML package for the benefit of future enhancements and the ease of use by the onboard maintenance crew. I have therefore previously held security clearance for restricted information and installations.

Working at Wood Group in Aberdeen also introduced me to designs on Offshore Installations.

~ SOFTWARE EXPERIENCE ~

CAD Experience Includes:

Autodesk – Autocad 2D & 3D Release 12, 13, LT98, 14, 2000, 2002, 2005 & 2008
Bentley Systems – Microstation 2D & 3D Versions 4, 5, 95 for Windows NT, SE, J & V8
Intergraph – EE RaceWAY (3D Electrical Modeller for cable racking & equipment placement)
Intergraph – 3D Plant Design System (PDS) Version 7
Intergraph – 3D Equipment Modeller Version 6
I/RAS B – Intergraph Raster Drawing Manipulation
CAD Overlay & GTX RasterCAD – Autodesk Raster Drawing Manipulation
Pro-CAD – AutoFLOW III Intelligent Process & Instrumentation Diagrams
Vantage – Plant Design Management System (PDMS) Design and Draft modules V11.6
Z+F UK Ltd - LFM ViewerLite Version 3.9 & LFM Server laser mapping review software

Other Specialised Software:

Bentley Systems – Project Wise document management
JPI, Documentum, EDMS, WINtrack – document management systems
RAP – BP Risk Assessed Permit training course 2003
BREL – V-BRIDGE Interactive drawing HTML/CAD database environment
INtools v3 & v4 – Plant Instrumentation project equipment and wiring database utility
Hevacomp – Cable selection process
Simplex Chalmit – CalmLITE lighting layout/point-to-point calculations
Siemens – PLC Ladder and Hard Coding software

Other General Software Experience Includes:

MS Excel with VBA programming
MS Access with VBA programming to build Cable Schedules, Instrument Lists and automatic loop generation based on cad templates
MS Word, Lotus Notes, Lotus Smartsuite, MS Outlook, Internet Explorer.

~ CAREER SUMMARY~

JACOBS ENGINEERING LTD –
GRANGEMOUTH, SCOTLAND
AutoCAD 2008, PDMS, JPI, Documentum, LFM ViewerLite, LFM Server

Apr 2010 to Present
Senior Electrical Designer

Based in Grangemouth at the Ineos Project Offices on the only Scottish refinery, I am currently working on various projects throughout the plant for ongoing upgrades and new installations to, among other things, meet with SEPAs stringent regulations.

In parts of the plant where full new modules are required, we commission a laser scan of the existing area and tie-in points and model in the new cable racking and electrical equipment with PDMS, extracting drawings to AutoCAD for construction.

JACOBS ENGINEERING LTD –
GLASGOW, SCOTLAND
AutoCAD 2008, PDMS, JPI, LFM ViewerLite, LFM Server

Apr 2007 to Mar 2010
Senior Electrical & Instrument Designer

Based in Glasgow I worked on various medium to large sized projects throughout the UK, mainly: *Syngenta Az3, Grangemouth* – brownfield pesticide/fungicide/fertiliser plant modelled cable rack and equipment using PDMS and LFM Laser Survey software and extracting drawings to AutoCAD, followed up with two months construction support in the field resolving wiring & vendor PLC problems. *Fujifilm IC, Grangemouth* - brownfield colour laser toner plant using laser mapping to avoid existing structure/equipment, 3D PDMS modelling and extracting 2D layouts with autotagging, SLDs, Interconnections, developed AutoCAD VBA AutoLoop generation from MS Access database content *SSE Aldbrough, Yorkshire* – Greenfield underground gas storage, HV & LV layouts & interconnections *Scottish Leather Group, Bridge of Weir* – Greenfield Energy from Waste plant

JACOBS ENGINEERING LTD – Innovene Grangemouth Projects
INEOS GRANGEMOUTH, SCOTLAND
AutoCAD 2002, Cad Overlay, JPI

May 2005 to Apr 2007
Senior Electrical & Instrument Designer

Based on site in Grangemouth I worked on a multitude of small to medium sized projects throughout the BP/Innovene/Ineos sites designing cable routing, block diagrams, single line diagrams, schematic & interconnection diagrams, lighting, power & earthing layouts, trace heating, distribution schedules, cable schedules and cable transit details from my site survey notes. I also produced instrument loop diagrams and hook-ups.

WOOD GROUP ENGINEERING (NS) LTD – BP Sullom Voe, Shetland
EAST TULLOS, ABERDEEN, SCOTLAND
Microstation v8, AutoCAD 2005

October 2004 to May 2005
Senior Electrical Designer / Engineer

Based in Aberdeen I worked on various projects for the BP Sullom Voe Terminal, Shetland Isles. This involved trips to mainland Shetland for site investigations to produce destruct and temporary bypass drawings and scopes of work to provide air-gaps to allow removal of redundant plant equipment and subsequent construct layouts, schematics, interconnections, cable schedules, label schedules, and bills of materials for new installations.

I also produced cable routing and lighting layouts for offshore installations Magnus platform and Schiehallion FPSO.

In April 2005 I was given full Engineer responsibility for all 18 demolition contracts for the Sullom Voe Terminal attending meetings with the client and producing scope of works, requisitions, and man hour estimates in addition to still producing all the required drawings.

M.W.KELLOGG LTD – In Amenas, Algeria, Qatar Shell GTL April 2003 to October 2004
GREENFORD, MIDDLESEX, LONDON Senior Electrical / Telecomms Designer
Microstation J, EE Raceway, PDS Equipment Modeller, AutoCAD 2002, PDMS

Based in London, I worked in the project task force designing a LNG plant in the Algerian Sahara desert. I designed 3D models in EE Raceway of all cable routing i.e. ladder racks and major tray and trenches in Equipment Modeller. In addition I also created all the associated 2D standard installation details, equipment layouts, lighting layouts, block diagrams, schematic and interconnection diagrams, and cable schedule.

In July 2004 I was retained by MWKL after In Amenas project close-out and re-hired to work as a Telecomms designer for the Qatar Shell Gas To Liquids project. This included performing Sound Pressure Level calculations, extracting 2D drawings from PDMS for speaker and beacon placement to Issue for Construction. Other documents produced include Sound Pressure Level calculations, Schematic diagrams, Cable Routing, Telecomms equipment layouts and cabinet Internal layouts.

JACOBS ENGINEERING LTD – Project Caribou June 2002 to April 2003
BP GRANGEMOUTH, SCOTLAND Electrical & Instrumentation Designer
AutoCAD 2000, RasterCAD

I worked in a specialised taskforce to install a replacement telecomms Local Area Network for the whole of Grangemouth Operations. Job entailed site surveys to find where new cabinets can be located, where fibre optic cables can be routed, cable schedules administration, drum schedules, network block diagrams and routing layouts.

I was later also responsible for the internal arrangement of the new network cabinets to provide a fully functional, upgraded parallel LAN ready for migration switch over of services before decommissioning of the existing network could begin.

BP RAP course passed to complete Risk Assessed Permits prior to conducting site surveys.

BABCOCK DESIGN & TECHNOLOGY LTD – HMS Ark Royal April 01 to June 2002
ROSYTH, SCOTLAND Electrical & Instrumentation Draughtsman
AutoCAD 2002

As part of a taskforce we detailed the recent refit of the CVS class aircraft carrier HMS Ark Royal and arranging the data along with consolidating all existing manual drawings into V-BRIDGE, an HTML package, for hand-over to the MoD for use as an interactive maintenance package on-board the ship. Carried out an intense survey recording all power and control equipment and cables (including Power Generation and distribution, RADAR, SONAR, Weapon systems etc) and investigation into new unrecorded systems. Using in-house software to link all elements within my AutoCAD 2002 drawings to several databases creating a 'live' intranet environment, with all data e.g. full cable schedule details, switchboard contents, motor ratings etc. resulting in being able to trace each and every electrically cabled circuit on board. All this available from the drawings concerned which are viewable from standard Internet Explorer, no CAD required.

FOSTER WHEELER ENERGY LTD - August 95 to April 01
GLASGOW, SCOTLAND Electrical & Instrumentation Designer/Draughtsman
AutoCAD R14 / Microstation SE / PDS / Raceway / Intools v4

As part of the initiation for full-time employment I was sent to a 30 week ECITB General Engineering Appreciation course in a practical workshop at METCOM in Paisley. Tasks varied between using lathes and milling machines, sheet metal fabrication, MMA and Oxy-Acetylene welding, wiring up ring and lighting circuits, PCB design and PLC programming. I did my specialised project on designing PLC programming and circuitry, building relay panels to control existing pneumatic rigs for demonstration/ teaching purposes.

I worked on numerous Electrical and Instrumentation projects during six years staff employment. Oman LNG and Roche Vitamin C Modernisation were by far the longest and most interesting projects worked on, being 3D modelling and at over a year spent on each.