

Kevin Magee C.Eng FIEE - Detailed Project Reference List

Oil & Gas

CSE-Servelec/Teknica/ZOC	Development of Rockwell Controllogix engine governor, sequencer and compressor anti-surge control system for P&W FT4 gas compression plant.
Gazprom, OAO Promgaz	Design of PCP artificial lift control system for coal bed methane using VSDs.
Rolls Royce, Project 305	Project management and technical authority for Allison marine 601 gas turbine engine controller development project.
Talisman Energy, Ross	Ross Subsea control system. Technical authority for subsea control system software, electrical and electronic design. Design of HPU control software.
Talisman Energy, Hannay	Hannay Subsea control system. Technical authority for subsea control system software, electrical and electronic design. Design of powerline cable simulators.
DSND Oceantech, Banff	Banff Phase II subsea control system. Technical authority for subsea control system software, electrical and electronic design.
CNR, Kyle	Kyle subsea control system. Technical authority for subsea control system software, electrical and electronic design. Development of Lonworks subsea powerline repeater module.
Bluewater Engineering b.v., Flora/Fife/Angus	Durward and Dauntless, Flora subsea control system.
SLP Engineering, MacCulloch	Project engineering and technical authority for subsea control system software, electrical and electronic design for MacCulloch subsea control system.
Phillips Petroleum Co. UK, Hewett 48/29-FTP	Design and project management for the ESD upgrade project on the 48/29-FTP platform providing a new ESD system with remote fibre optic communications to other platforms within the complex. SCADA and A38 compressor upgrades including Modicon and AFE HMI software.
Amoco UK Exploration, Leman 49/27A	Generation of conceptual designs, project management and detailed design of the turbine control and station control upgrade projects.
Elf Petroland, K5	Development of Allen Bradley PLC5 PLC based HVAC control systems, Design of the switchgear, PLC and Panelview software and instrumentation systems.

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Kerr McGee, Gryphon A	Responsible for the generation of the conceptual design for a subsea data monitoring and logging system for the Gryphon A FPSO. Responsible for the generation of the FDS. System involved the use of the InTouch SCADA system connected to a Subsea data acquisition pod containing interfacing to conventional as well as DHPT instruments.
Phillips Petroleum Co. UK, Judy Wellhead Control Panel	Responsible for the generation of the conceptual design for the bid and FDS. Involved in the pre-commissioning and commissioning of the system both onshore and offshore. Lecturing at, together with organisation of client training courses.
ESSO Petroleum, MV ESSO Fife	Development of new Modicon PLC based bow loading control system and aft bridge repeat system to replace existing systems on the MV ESSO Fife. This involved the tie in with 3rd party ships systems as well as the site proving of the systems.
Marathon Oil, Brae B	Design of Ex certified electric pig launcher control system.
SLP Engineering, Leman, Sole Pit, Inde	Development of TI PLC based HVAC control systems for a number of Shell UK Expro platforms including Sole Pit Clipper, Leman BD and CD, Inde J and Inde K.
Amerada Hess, Ivanhoe/Rob Roy Development	Development of PLC based HVAC control system as well as thyristor starter MCC for heaters and humidifier systems for the platforms main control module.

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Water Industry

AWA, Covenham WTW

Development of Allen Bradley PLC5 PLC, SLC500 PLC, switchgear, variable speed drives and control systems. This was a major project spread over a 16 month period and involved responsibility for the total package design including site installation, standby mains generation, security systems, fire and gas detection and commissioning.

Southern Water, Botley to Whitely

Design of new soft starters and instrumentation upgrade for Whitely booster station including hot-work site switchgear modifications.

Design of new switchgear and Mitsubishi A series PLC based control system for Botley WRW including switchgear, instrumentation, standby mains generation.

Severn Trent Water, Longbridge WRW, Warwick

Development of a dual redundant B&R PLC control system and Multiview SCADA system for tertiary Sand Filters plant. This included the design of the installation.

AWA, Trowse,

Logica software for control of power generation equipment at Trowse pumping station including generators, incoming supplies, bus couplers etc.

AWA, Newmarket STW

Logica software for control of sludge thickener plant. Design of switchgear.

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Process Industry

- STC Submarine Systems, CE6** GEM80 PLC control system for CE6 submarine cable extrusion line. This project was an upgrade to an existing system and involved the replacement of all control systems. This project was one of the first in the country to use the GEMSMART distributed I/O system and used the Imagem operator interface. Lecturing at, together with the organisation of 8 off client training courses for maintenance and operator level personnel.
- IBC Vehicles, Frontera VIN** Development of a B&R PLC controlled twin servo axis chassis stamping machine for the Vauxhall Frontera line in conjunction with Eagle Engineering.
- British Sugar, White centrifuge** Design of 4 quadrant 200kW centrifuge drives and Allen Bradley PLC2 control systems for the white sugar plant in conjunction with BMA, Germany.
- Davy McKee/SAM,
Wire rod tail trim system** Development of Telemecanique PLC based tail trim machine control systems for the SAM steel rod mill near Fontainbleu in France. This was an R&D project run along side Davy McKee and SAM and involved a considerable element of systems development on site.
- Ford Motor Company,
Southampton – Transit VIN** Development of GEM80 PLC controlled twin servo axis chassis stamping machine for the Ford Transit line in conjunction with Eagle
- Northampton Machinery,
Northampton** Development of GEM80 Imagem HMI system for wire assembly machine control systems.
- Pirelli Cables, Aberdare** GEM80 PLC and Imagem software for high speed multi-head extrusion lines, which included considerable on site liaison with client and other vendors.

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Development Projects

Long haul Modem

Project management and development of Long haul comms on power modem for use in subsea applications to provide 100km step-out capability

2nd Generation Subsea Electronics Module

Project management and development of 2nd generation Subsea Electronics Module (SEM) using embedded PC104 technology and QNX RTOS.