

# MARK HAYLES

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## OBJECTIVE AND EXPERIENCE

Lead Discipline Engineer – Major O&G, M&M Projects  
Senior E, I & C Systems Design, Pre-commissioning Engineer EPC  
Project EPC contractor bid review, and award process.

## CAREER SUMMARY AND STRENGTHS

Work in the Project Team with a Lead Engineering, Technical and Coordination Role on world-class scheduled projects with successful on-time completion. This was for large LNG trains in a variety of EPC engineering projects in the Middle East, Japan, Italy, UK and Australia.

Strengths are having excellent Systems, People and Project Management background and a broad range of Project experience including exposure to a wide range of assets in the Oil and Gas and Mining industries. Discipline Lead, Contractor liaison, plant enhancements, complex problems resolution, mentoring, FEED, engineering design, project completion and pre-commissioning, startup and engineering management within schedule and cost. This involves particularly Infrastructure, Utilities, DCS and Power Systems with cutting edge Plant Asset Management Integration.

## SKILLS INVENTORY

- Lead engineering responsibilities in the Oil and Gas industry;
- Project Management Team in the I&C commissioning of LNG plants;
- Risk Review on project level for Plant Upgrades, including FEED;
- Client, Engineering and Field roles on US\$b+ international projects;
- DCS Systems development as a Supplier to the LNG Industry;
- Contractor and Vendor Liaison in ensuring completion in EPC project.

## EMPLOYMENT HISTORY

**Feb 2010 – Present INPEX, Yokohama, JAPAN**

***Lead Instrument and Control Engineer, Ichthys Onshore LNG Plant***

- INPEX Project for Onshore LNG Facilities. The Project is a multi-billion dollar green-field LNG processing plant engineered in Japan for construction and commissioning in Darwin Northern Territory, Australia. Reporting to the Engineering Manager, key responsibilities are:
  - Conducting all activities in a safe and efficient manner in accordance with INPEX's value of 'ANZEN DAI ICHI' or Safety Number One.

- Supervising the design of instrumentation and control system, studies for system selection and detailed design for implementation.
- Maintaining close interaction with the offshore project to ensure that the instrumentation and control systems selected for onshore and offshore facilities are compatible.
- Reviewing and accepting the design developed by engineering contractor.
- Reviewing and approving control system configuration, system selection studies, instrument datasheets, specifications, requisitions.
- Reviewing and approving of Project General Specifications related to instrumentation and control systems.
- This position is planned to move to the EPC phase of the project where it will be responsible for the technical bid evaluation, technical clarifications, inspections during fabrication, performance testing at vendor location, supervision of site installation, testing and commissioning.

**Mar 2008 – Jan2010 Bechtel, Perth, Aust.**

***Lead Engineer (I&C) Infrastructure, Worsley E&G***

- BECHTEL E&G Project for Worsley Alumina Plant. The Efficiency and Growth Plant upgrade for the major shareholder BHP Billiton, is a AU\$2b undertaking to provide a (50%) increase in production. Position of Lead Systems Engineer (E, I&C) for Infrastructure and Utilities working with Project Manager for significant brown-fields plant upgrade of infrastructure and utilities. Fast track and complex project with successful delivery and integration with world-wide engineering offices.
- Project includes brown-fields and green-fields aspects of the use of standard project BSAPS (Bechtel standard apps and Australian Standards) - review and comment, coordination and procurement processes, approvals and databases. Responsible for team including DCS Systems Interface, electrical infrastructure cutover from heritage plant system, coordination with suppliers and client for completion, tie-in and commissioning.

**Jan 2007 – Feb 2008 Foster Wheeler Energy Ltd Reading, UK**

***Senior Control Systems Engineer***

- PLUTO LNG Greenfields Project for Woodside Burrup Pty Ltd as key member of the E, I&C Discipline together with Mechanical Package Engineer. Involved from FEED thru to EPC Engineering Phase. Working on DCS system interfaces, CPMS, third party packages, INTTools database, collation of electronic tag data for SAP CMS Interface. This phase involved all aspects of the development of an LNG train design including FEED, Value added engineering, Detailed Design, Technical review, Coordination, Planning, Scheduling, Procurement Support, Vendor Interface and Client Reporting. Successfully completed all I&C

Engineering aspects for the 4 x NP GTG (40MW) long-lead Power Generation units, using Shell Standard Design Guides.

**Sep 2005 – Dec 2006 GHD Services Pty Ltd. Perth, Australia**  
***Principal I/E Systems Engineer/Project Manager***

- Lead Engineer for Instrumentation and Electrical Team within Oil & Gas Group in Perth Main Office. Refinery upgrade in PNG and building of Training Process Plant including all aspects including FEED, Detailed Design, Technical review, Coordination, Planning, Scheduling, Budget Costing, Procurement, Client Interface and Commissioning. Honeywell training centre ACEPT in Henderson, WA.
- Project Management for international engineering consulting company. Providing specialized plant upgrade services in the area of Oil & Gas Group for Instrumentation and Electrical disciplines teams.

**1998 – 2005 RasGas LNG Co Ltd. Doha, Qatar**  
***Sr. Systems Engineer/Project Lead***

- Project Manager for ELICS – Electrical Control System DCS for LNG Train4 and 5 on-shore plant expansion (Foxboro/Invensys technology). Client rep work in JGC, Chiyoda and Snamprogetti home offices.
- Expansion Project Team Lead for Electronic Data ICIMS (Integrated Control Systems and Information Management Systems).
- Heavy day-to-day involvement and responsible as Client Engineer for complete loop checking, functional testing and DCS component of start-up and successful commissioning for LNG Train on Utilities Console.
- Support for Engineering Disciplines specialized software packages, including tools for modeling, and process simulation, to enhance use of modern electronic software tools, SMARTPLANT PDS, and SPI.

**Long Term Experience History** (specialized system development, across the board project and plant development with operational and site commissioning experience):

<i><b>DATE</b></i>	<i><b>POSITION</b></i>	<i><b>DESCRIPTION</b></i>
<b>1997 to 1998</b>	Iona Technologies; USA, Europe, Australasia	Client: Boeing Industrial Plant. Project: Integrated cross-platform transactional real-time development system. Role: Team Lead Product Development Technology: UNIX, ORBIX Achievements: World-wide system development and Customer support.
<b>1994 to 1997</b>	Steedman Science and Engineering; North West Shelf, Western Australia, and South-east Asia.	Client: Woodside Petroleum Project: Rankin A, Goodwyn and NW Spar. Role: Team Lead Product Development Technology: Foxboro DCS and MODBUS code. Achievements: System upgrade, and remote deployment upgrade on production platforms, pipelines and on-shore remote Control Rooms.
<b>1989 to 1994</b>	Minemap Pty Ltd; North Western Australia.	Client: Western Mining Project: Plant upgrade and re-vamp major site. Role: Product Development and technical coding implementation. Technology: Unix, WINDOWS, PCS Interface. Achievements: Major system upgrade, commissioning and testing for major operational refinery plant site.
<b>1983 to 1989</b>	Lajitas S.A.; Argentina, Latin America.	Client: Major Processing Plant, Shipping and Control System, Product Management and Tracking System Role: Product Development and Deployment. Technology: Visual Basic and customized Assembler machine code. Achievements: Complete system upgrade, documentation and hand-over training including financials. Plant operator responsible.
<b>1979 to 1982</b>	Worley Engineering; Perth, Western Australia.	Client: Woodside LNG. Project: North Rankin "A" Topsides Detail Design. Role: I&C Engineer. Achievements: Development of new generation computer based systems and controls. Typical control system design development and implementation (P&ID's, Logics and Graphics).

## **EDUCATION**

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- **1992 – 1993 Curtin University of Technology Perth, W. Australia**
  - Graduate Diploma in Computing Science [Dip Comp Sc].
- **1974 – 1977 University of Western Australia Perth, W. Australia**
  - Bachelor of Engineering (Electrical/Electronic) [BE (Elect)].

## **SPECIAL AREAS**

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- Publications/Reports: Analysis of Resource Reserves, Gove, NT.
- Professional Affiliations and Memberships: MIEEE, MIEAust.
- Languages: English and Spanish

## **REFEREES AND BACKGROUND**

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Note that referees and detailed technical background are available on request.

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