

# Miguel Ferraz

## PERSONAL INFORMATION

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Address: 4110 Fairmount Street, Apt. 3185, Dallas, Texas 75219

## EXPERIENCE

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### ES&H

Dallas, Texas

*Health & Safety Manager*

February 2017 to Present

Responsible for Health, Safety & Environment of ES&H's Texas locations (DFW, Austin and Midland). Major duties are:

- Conduct training for all field personnel on company safety programs and HAZWOPER regulations.
- Communicate new policies and procedures as deployed by management and clarify concerns that field employees may have – lead incident investigations, claims and RCA's with employees/management.
- Perform job site inspections/audits of company equipment and assess working environment to identify adequate PPE requirements – implement corrective actions for continuous improvement on safety KPI's.
- Manage company online portals (ISN & PureSafety) and all safety equipment inspections/calibrations.

### SolarCity

Dallas, Texas

*Field Engineer*

September 2016 to February 2017

Obtained and communicated the necessary project information to SolarCity design team for the preparation of permit ready documents needed for installation of solar photovoltaic systems. Primary external interface and liaison between SolarCity's potential customers and design team, including:

- Document site's electrical and structural information as well as sun/shade readings.
- Record customer installation preferences and perform an energy efficiency audit for homeowner.

### Galp Energia

Lisbon, Portugal

*Staff Petroleum Engineer*

September 2011 – August 2016

Profound knowledge of the Oil & Gas industry with exposure to world class projects in different life-cycle phases (Planning, Development, Execution and Abandonment) and in different geographies (Brazil, Morocco, Namibia, Angola and Mozambique). Main milestones achieved were:

- Lead an analysis of the rig supply vs demand in a Brazilian asset in order to re-scale the ultra-deepwater rig fleet (~1 MMUSD daily rate) and defined the future contracting strategy for a project with 5 billion barrels of oil in recoverable volumes.
- Developed a Well Delivery Workflow manual for the Company to follow as an operator including all of the well life-cycle from the screening/planning to the abandonment phase, with a duration range of 400 to 500 days – future Company standards.
- Supported interface among finance, regulatory, procurement, HSE, logistics and engineering to drill an exploration well offshore Morocco during 15 months – 1st ever offshore well operated by Galp Energia.
- Coordinated a team of 5 members in the development of an operations database for a pre-salt project in Brazil with more than 100 ultra-deepwater wells already drilled and completed with ALS/gas lift and a total average of 120 days duration / ~120 MMUSD per well.
- Managed an offshore ultra-deepwater development project with production increase of 1 billion barrels of oil in recoverable volumes and a wildcat onshore discovery in a remote and complex environment.

**Galp Energia**

Rio de Janeiro &amp; Aracaju, Brazil

*Project Manager*

March 2015 – February 2016

- Assigned to rotational program with the offices in Rio de Janeiro, focusing on project management of assets in Brazil – offshore ultra-deepwater projects with state-of-art technology including gas lift as ALS.
- Supervised onshore wells operations in Aracaju, involving workover, testing and drilling assignments to ensure compliance of HSEE and technical standards.
- Performed planning and program elaboration of an onshore production well re-entry with ALS/ESP replacement to increase well deliverability – production wells have ESP like U.S. onshore (Permian).

**Galp Energia**

Agadir, Morocco

*Project Engineer*

October 2013 – December 2014

- Focal point of the project for tender processes, SoW, internal manuals set up, regulatory issues, EIA, site surveys, geotechnical assessment, budget forecast, meetings with stakeholders, project risk assessments, rig contracts & ITT as well as rig inspection & acceptance process - member of the Steering Committee for the whole project life-cycle.
- Reduced rig daily rate by 50% by showing that it was feasible to drill a well in 105m water depth with a jackup, challenging the operational limits of the rig without ever compromising safety. Presented feasibility study to top management.
- Responsible for project close out - invoice control and approvals, claims management and vendors KPI's. Presented end of well report to main contractors and Company top management.
- Drilled 36" hole and set a 30" conductor. Drilled 26" hole and set a 20" surface casing. Drilled 17-1/2" hole and set a 13- 3/8" casing. Drilled 12-1/4" hole, with MPD technology on the rig as a contingency. Weatherford provided onshore & offshore MPD training for all personnel.
- No wireline logging required due to extensive M/LWD suite (SADN, GeoVision, GVR, Telescope), therefore only normal P&A. Main contractor for all equipment and services was Schlumberger with dedicated IPM.
- Onboard geotechnical vessel to perform borehole drilling with CPT/PCPT technology, ensuring it was feasible to drill offshore Morocco with a jackup. Onboard for wet tow from Las Palmas to well location and for preloading.
- Conceptual studies for production wells included ALS – both gas lift and ESP were analysed and considered in the field development plan.

**Galp Energia**

Windhoek, Namibia

*Operations & Wellsite Drilling Engineer*

April 2013 – September 2013

- 3 well campaign offshore Namibia from deepwater to ultra-deepwater environment in Walvis & Orange Basins – member of Operations Support Base engineering team and operational team at the rig.
- Drilled Wingat in 1000m WD, Murombe in 1500m WD, and Moosehead in 2000m WD. Jetted 36" conductor. Drilled straight away with CADA tool 26" hole and set 20" surface casing. Drilled 17-1/2" hole and set 13-3/8" casing. Drilled 12-1/4" hole and set 9-5/8" casing. Drilled 8-1/2" hole to TD.
- Used Seismic While Drilling during drilling and performed extended wireline logging (including MDT & RSWC) and P&A. Main contractor for all equipment and services was Schlumberger with dedicated IPM.

**Galp Energia**

Alcobaca, Portugal

*Wellsite Drilling Engineer*

July 2012 – December 2012

- Galp Energia's 1st well onshore Portugal in the Lusitanian Basin – member of operational team at the rig.

- Drilled a 22" hole with a water well rig, and set a 20" conductor. Drilled 17-1/2" hole and set a 13-3/8" surface casing. Drilled 12-1/4" hole and set 9-5/8" intermediate casing. Air drilled 8-1/2" hole with a hammer bit, and set the contingent 7" liner. Drilled 6-1/8" hole to TD.
- Performed extended logging on wireline (including RSWC) and P&A – identical to U.S. onshore operations.
- Decommissioned abandoned wells with ALS/ESP completions.
- Presented wellsites, drilling, testing and completion (ALS/ESP) technology to Company board members as well as Company Exploration & Production business unit.

## **Saint Gobain**

Lisboa, Portugal

*Manufacturing Engineer*

June 2011 – September 2011

- Member of worldwide Saint Gobain program – Manufacturing Knowledge Transfer & Training (MKT2). Engaged in software development, operator training, and manufacturing optimization.

## **EDUCATION**

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### **Heriot-Watt University, Institute of Petroleum Engineering (Texas A&M )**

Edinburgh, U.K.

*Master in Petroleum Engineering (partnership w/ Texas A&M) – Distance Learning Student*

2013-2017

### **Technical University of Lisbon, Instituto Superior Técnico**

Lisbon, Portugal

*Master in Mechanical Engineering – Specialisation in Production – Grade: A*

2009-2011

*Bachelor in Mechanical Engineering (with three internships in Delphi and Key Plastics)*

2006-2009

## **SKILLS**

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- Fluent in 4 languages: English, Portuguese, Spanish and French.
- Drilling Engineering (5 years), Operations Engineering (5 years), Production Technology (5 years), Health Safety & Environment (5 years), HAZWOPER (1 year) and Petroleum Engineering (5 years).
- Project Management (3 years), Project Development (3 years), OSHA #511 (1 year) and OSHA #2264 (1 year).
- Microsoft Office suite (10+ years), Solidworks (5 years), DSP-One (4 years), Wellview (4 years), Landmark EDM suite (4 years), PureSafety (1 year) and ISNetworld (1 year).
- Casing Design (4 years), Directional Drilling (3 years), Drilling Fluids (3 years) and Cementing (3 years).

## **CERTIFICATIONS**

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### **IWCF**

Malaga, Spain

*Well Control Combined Surface and Subsea BOP Supervisor Level*

March 2013 – March 2019

### **BOSIET**

Milano, Italy

*Basic Offshore Safety Induction & Emergency Training*

January 2013 – February 2017

## **PROFESSIONAL ORGANIZATIONS**

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- Volunteering: Habitat for Humanity (Dallas HfH Member) and Food Bank.
- Memberships: Society of Petroleum Engineers and National Engineers Association of Portugal.