

Ross Thomson

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Personal statement

A dedicated Subsea Controls Engineer with extensive experience in a sector which I am passionate for and one which has provided many challenges and achievements. I am enthusiastically delving into Data Science and Artificial Intelligence, aiming to integrate these innovative technologies within subsea engineering to enhance operational efficiency, innovation, and sustainability

Key Skills

- In depth technical knowledge of MCS, DCS, SCMs, HPUs, Electrical & Hydraulic Subsea Distribution, HIPPS, MPFMs, CITV's, DHPT.
- Subsea Operational Support.
- Capital Project Delivery from FEED to Commissioning
- Commercial and Contractual Management.
- Communication and Interfacing with OEMs, Suppliers, Asset teams, Dive Contractors and Offshore Installations.

Employment History

Subsea Controls Engineer SME, TAQA Bratani, Aberdeen

(March 2019 – Present)

Achievements and responsibilities:

- Subject Matter Expert for the Subsea Controls discipline within TAQA.
- Provision of technical support and responsible for the Pelican, UMC, Kestrel, Falcon, Hudson, Cladhan, Otter, Causeway, Devenick, Brae fields and 3rd party subsea tiebacks. This includes support of a Subsea Multiphase Booster Pump.
- Support to decommissioning team for a large series of subsea disconnects and responsible Engineer for Northern Sector umbilical system flushing and disconnects (10 umbilical in total).
- Identified, documented and risk ranked all subsea control system threats along with proposed mitigations. This includes critical spares review and system obsolescence issues.
- Develop a subsea surveillance program to actively monitor key subsea system data and ensure relevant maintenance routines are completed.
- Job responsible project engineer for a new technology Subsea Battery Trial.
- Mentor role for an RGU Graduate Apprenticeship scheme.
- Contractual Management Responsibilities for all Subsea Control System OEMs and Suppliers.
- Commercial Responsibilities for the UK Subsea Controls Budget.
- Ops Interface with the Harding Oil Subsea project development.
- Working through a part time Data Science and Machine Learning Aberdeen University MSc course

Lead Subsea Controls Engineer, ConocoPhillips, Aberdeen

(April 2013 – March 2019)

Achievements and responsibilities:

- Subsea Controls for J-Block, Britannia, Britannia Satellites including Alder, Southern North Sea, East Irish Sea and MacCulloch.
- Contractual Management Responsibilities for Subsea Control System OEMs and Suppliers. Commercial Responsibilities for the UK Subsea Controls Budget.
- Responsible for Delivery of Brodgar H3 from FEED to Offshore Commissioning and Production.
- Ops Interface with Major Capital Projects Enochdhu, Alder, Britsats Extension and Finlaggen.
- Project responsibilities include the controls elements for the MacCulloch Dynamic Umbilical and Joanne Umbilical Replacement Scopes.
- Day to Day operational and first line of support for all UK assets.
- Project Engineer for the Britannia Manifold Field Life Extension to replace the ageing hydraulic and electrical distribution systems.
- Support the delivery of an MCS Replacement.

Subsea Controls Engineer, Nexen, Aberdeen

(April 2011 – April 2013)

Achievements and responsibilities:

- Provision of all aspects of Subsea Controls Support for the Buzzard, Scott, Telford & Ettrick fields leading team of 2 Engineers.
- Responsible for the subsea controls budgets and the contract holder for 2 OEMs.
- Responsible engineer for Ettrick Water Injection Well delivery and tie-in.
- Installation of a SMACS4 to SMACS6 change out, commissioning and training of personnel
- Completed study into expansion capabilities/limitations/opportunities for an ageing brownfield asset.
- Lead role completing detailed system obsolescence studies to identify and mitigate current and future issues using a risk based approach

Subsea Controls Engineer, Total (seconded to Shtokman Development Area Group), Paris

(April 2010 – April 2011)

Achievements and responsibilities:

- FEED for Subsea Control system for a Barents Sea FPSO development with 6 templates and 24 Trees.
- Definition of the Company control system requirements as part of the tender process.
- Evaluation of the Tenders to ensure compliance and that project interfaces are defined and delivered.
- Lead engineer for the qualification program for 2 MPFMs and design of a Real Time Ice Formation and Detection Monitoring system.

Subsea Controls Engineer, JP Kenny, Aberdeen

(December 2008 – April 2010)

Achievements and responsibilities:

- BP Ops Team supporting ETAP, Bruce, Keith, Rhum and Andrews Fields. Responsible for day to day platform support and provision of technical expertise to BP asset teams
- Infill Well Projects for Machar Well 125, 129, 183 and Cyrus C4. Responsible for delivery of Tree controls equipment, subsea distribution kit, SCMs and topside platform modifications for these well tie-ins.

Subsea Controls Engineer, Chevron, Angola

(March 2007 – December 2008)

Achievements and responsibilities:

- Providing Subsea Controls operational support in Block 14 for the Kuito and Lobito Tomboco Fields.
- Supervision and management of the Block 14 subsea equipment OEM.

- Completion of 4 well hook up and commissioning work scopes.
- Responsible for the Kuito C Centre Electrical Umbilical and SDU change-out project.
- Member of team responsible for RCA into project SCM failures.
- Responsible for training and development of Subsea Controls Engineers.

Senior Subsea Software Engineer, Aker, Aberdeen

(August 2000 – March 2007)

Achievements and responsibilities:

- Support of the Dalia project in UK and Angola from project phase, in country support and final commissioning & first oil..
- Field Service Engineer. Responsible for offshore and offsite work fault-finding, troubleshooting and commissioning scopes worldwide.
- Software Engineer for Project work and Operational work scopes

Education

Aberdeen University *(September 1996 – June 2000)*

BSc Computer Science

Mearns Academy *(September 1990 – June 1996)*

SCE Highers in Modern Studies (A), English (B), Maths (C), Computing Studies (B), Physics (C)

Edinburgh University *(March 2023)*

Practical Introduction to Data Science.

A challenging 12-week MSc introductory level course to gain skills in Data science funded. Passed with Merit.

St Andrews University *(January 2024 – Current)*

Advanced: End-to-End Machine Learning

12 week course funded through Upskill Scotland aimed at professionals who wish to understand the core concepts, methods and technologies that underpin modern Deep Learning using artificial neural networks, Skills and packages taught are Scikit, Ternsorflow, Keras

Aberdeen University *(September 2023 – Current)*

Master of Science in Data Science (Part Time Learning).

Enrolled in 2023 on 3-year course sponsored by employer. This is an area I really enjoy. Data science and AI can have many applications in O&G with the vast amount of collected data.