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| **Title:** | **Senior Subsea Engineer** | |
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|  | Date of Birth: | 19.01.1958 |
|  | Location: | Bærum, Norway |
|  | Nationality: | Norwegian |
|  | Languages: | Norwegian, English |

Key Skills

33 years experience in development of subsea Oil & Gas projects from the supply industry, contractors and operators.

Work includes field developments, conceptual and detailed engineering of subsea production equipment, floating production, topside, analysis and design of connectors, valves, pipelines, rigid and flexible riser systems. Follow up, fabrication, mechanical completion, commissioning, testing, installation and start up of production equipment for oil and gas production.

Work Experience

04.2018 – present Subsea Design

Engineering Manager for Tie-In on Bauge project for Equinor

Technical responsible and leader for engineering and delivery of SeAlign tie-In system for Bauge consisting of tie-in of a 10 inch riser connected to the Njord platform, a 15 km 10 inch PIP between riser base and PLET, a 10 inch flexible jumpers between PLET and Bauge manifold (Capex) and a 6 inch gas lift line from Hyme to the Bauge manifold.

08.2017 – 04.2018 OneSubsea (Schlumberger)

Engineering Lead for Template Manifold and Intervention

Technical responsible for front end engineering of Template and Manifold for the NCS2017 projects consisting of Johan Castberg, Askeladden, Troll and Snorre expansion.

01-2016 – 07.2017 Arctic Flexibles

Project Leader for concept development of bonded flexible pipes for use as risers and spools for subsea and floating production applications. Leader for a design program developing continuous fabrication of bonded flexibles, a new generation end fittings, and an automatic mechanical method for pressing the end fitting to the bonded flexible pipe.

12.2015 – 01.2016 Core Energy

Adviser for Core Energy now merged into Vår Energy.

Advising Core Energy management in offshore and subsea field concept developments.

02.2015 – 11.2015 Statoil Åsgard Subsea Compression project

Site Representative for Statoil at Vestbase ÅSC in Kristiansund

Responsible for follow up all activities on the production equipment during Installation and start on the ÅSC project. The responsibility included follow up fabrication, installation and start up of a subsea compressor station consisting of 2 x 11,5 MW compressors with upstream scrubbers, inlet and outlet coolers, and pump 40 km step out at 250-325 meters water depth. The ÅSC compressor station increase expected field reserves with approximate 300 million barrel of oil equivalent (BOE)

07.2014 – 01.2015 Statoil Aasta Hansteen

SURF Engineer, Fabrication, Testing and Mechanical Completion

Responsible for follow up fabrication, MC, and FAT testing, quality, preservation and HSE related activities of Aasta Hansteen manifold fabrication at Aker Solution in Egersund.

05.2014 – 02.2015 Statoil Åsgard Subsea Compression project

Surf Engineer, Fabrication, Testing and Mechanical Completion

Responsible for follow up fabrication, MC, FAT testing, system integration testing, quality, preservation and HSE related activities of Åsgard Subsea Compression project at Aker Solution in Egersund. The field development consists of development, fabrication and installation of a subsea compressor station consisting of 2 x 11,5 MW compressors with upstream scrubbers, pump, inlet and outlet coolers, 40 km step out at 250-325 meters water depth The ÅSC compressor station increase expected field reserves with approximate 300 million barrel of oil equivalent (BOE)

02.2013 – 04.2014 Subsea7 Oseberg Delta 2 Project

Lead Engineer / Package Engineer Structure

Responsible for Spools, PLET, GRP Covers, PLR, handling equipment for umbilical, riser and Spools. Part of the Subsea 7 team installation and tie-in of the Oseberg Delta 2 subsea field development. The field developments consist of installation of 2 off 4 wells subsea templates, installation of rigid pipeline, flexible line and umbilical.

11.2010 – 01.2013 Statoil Fast Track Projects (Subsea Tie Backs)

Lead Engineer for Template Manifold and Intervention (TMI)

Responsible for follow up the EPC contract with FMC for the TMI scope. Responsible for follow up engineering, documentation, fabrication, MC, FAT testing, system integration testing, quality, preservation and HSE related activities. Part of the Statoil team developing four subsea field developments consisting of the Visund Sør, Katla, Vigdis NE, Hyme, Visund Nord and the Fram H projects. All the field develops consist of a 4 wells subsea template tied back to existing platforms like Oseberg, Gullfaks, Heidrun.

08.2010 - 10.2010 Aker Solutions Aker Solutions Tulip

System Engineer

Preparation of test procedures for qualification of light weight well intervention and work over system for Aker.

10.2009 – 10.2010 Aker Solutions Goliat

System Engineer

Barents Sea offshore northern Norway.

Responsible for design basis, P&ID and flow schematics. Aker supply the complete subsea production equipment for the Goliat project consisting of seven four wells templates with 22 X mas trees for hydrocarbon production, water injection and gas injection. Responsible for delivery of a complete system meeting ENI's specification and contract.

09.2007 – 09. 2009 BP Skarv

Qualification Test Lead Engineer, Offshore northern Norway

Responsible for review of qualification status according to BP’s requirements, planning and follow up of qualification testing program of more than 120 different qualification tests for x-mass tree, wellhead, manifold valves and connection system. Being a team member on the subsea delivery team follow up the General Electric (Vetco)’s scope of work. The contract consists of subsea equipment for 16 wells. Three of four wells templates and two off six wells templates, including x-mass trees, manifolds, control system, connection system etc.

05.2007 – 08.2007 Aker Kværner Process, FPSO Reliance KG-D6

Package Engineer

Package engineer for exchange heaters, air coolers and valves. Follow up the suppliers, valves in Germany and the exchange heaters and air coolers in Singapore. Interface coordinator for topside equipment. Converting a tanker to floating production storage and offloading (FPSO) for an oil and gas project offshore India for the Reliance Group, D6 Development Krishna Godivari Basin project offshore India. Served also as the interface coordinator for the FPSO project.

2002 – 02.2007 NLI Asker Subsea

Moho Bilondo, Package Engineer

Delivery of Pig Launchers to Acergy, Moho Bilondo offshore Kongo, operator Total. NLI Asker Subsea design, qualify, machine, assembly and FAT test their own valves.

Alvheim, Package Engineer

Delivery of Pig Launchers to Technip for the Alvheim project, operator Tallisman. NLI Asker Subsea design, qualify, machine, assembly and FAT test their own valves.

Greater Plutonio, Project Leader

Delivery of ROV subsea stab connectors for methanol injection and gas lift for the Greater Plutinio project, offshore Angola to Acergy, operator BP. NLI Asker Subsea design, qualify, machine, assembly and FAT test their own subsea stab connectors.

Subsea Kristin, Project Leader

Delivery of Hydraulic Jumpers to Kristin project including hydraulic subsea stab connetors, operator Statoil. NLI Asker Subsea design, qualify, machine, assembly and FAT test their own subsea stab connectors.

Snøhvit, Project Leader

Delivery of Pig Launchers to Technip for the Snøhvit project, operator Statoil. NLI Asker Subsea design, qualify, machine, assembly and FAT test their own valves.

Rogas, Lead Engineer

Development and fabrication Subsea Trunnion valves, metal to metal seated for the Rogas project, the 10” gas line from Kårstø to Stavanger in Norway. NLI Asker Subsea design, qualify, machine, assembly and FAT test their own valves.

1995 – 2001 Asker Subsea

Blue Stream, Deputy Project Leader

Development and delivery of Pipe Line Repair kit for the Blue Stream project, the gas line cross Black Sea from Ukraine to Turkey. Equipment consisting of subsea saw, lifting frame and subsea buoyancy for 2000 meter of depth.

Åsgard, Lead Engineer

Delivery of Hydraulic Jumpers and Subsea stab connectors for the Åsgard field for Statoil. Going offshore as service engineer during installation and repair of the hydraulic jumpers at Åsgard winter 2000.

Development and delivery of subsea Drill Cutting Injection connectors for the Åsgard field for Statoil.

Troll, Lead Engineer

Development of subsea connectors for the Troll Field.

Development of a Multibore Hone Tool for the Troll Oil Project.

1995 Technip (Coflexip) Balder

Lead Engineer

Responsible for design and structural analysis of a three line riser clamp for the Balder project for Esso. The purpose with the clamp was fixation of the risers to the clamp to the buoyancy buoy.

1994 – 1995 Asker Subsea

Lead Engineer

Development of Subsea Multi Component Flowmeter system.

Development of the ROV Tooling package for the Troll Oil Project.

Responsible for testing.

1992 – 1994 ABB Offshore Technology (Vetco) Tordis

Lead Engineer

Responsible for ROV tooling package to the Tordis project. Follow up design and fabrication of ROV tooling package and testing. Supervisor during shallow water test in Eydehavn during a complete test of the ROV tasks and ROV tools.

1989 – 1992 FMC Kongsberg Subsea Statfjord

Package Engineer

Responsible for design of universal subsea running tool (URT) for FMC Kongsberg from design and fabrication to shallow water test in Tønsberg. The URT was an intervention tool for installation and retrieval of the 5” ball valve and the 10” ball valve.

Development of subsea remote control system, responsible for contact with investors. Development of offshore loading system, taking part in development.

1987 – 1988 Elkem Eiendom A/S

Project Leader

Follow up engineering, planning, schedule and fabrication of a 5000m2 office building in Nydalen in Oslo.

1987 Brasnor Veslefrikk

Analysis of flexible risers, Statoil - Veslefrikk Floating Production.

1983 – 1986 Kongsberg Mc Dermott Engineering / Kongsberg Engineering

Senior Engineer / Senior Structural Engineer / Project Leader

* + - * Snorre, Client: Odfjell. responsible for performing analyses and design of flexible riser system.
      * Veslefrikk. Responsible for design of riser base, riser top, riser main body, specification of riser top and bottom connectors.
      * Tommeliten. Responsible for design of protection structures and preparation of weight estimates.
      * Veslefrikk. Responsible for design of template, subsea layout, weight estimates, installation procedure.
      * Gullfaks Gamma. Responsible for subsea layout, preparation of weight estimate, development of cost estimates, plans and schedules.
      * Tension Leg Platform, Block 34/8, client Conoco. Responsible for design of drilling template, structural analysis, preparation of weight estimates, development of project schedules and plans.
      * Gullfaks C. Responsible for technical analysis of skirt and pile foundations.
      * Troll Module. Responsible for evaluation of EDB programs for piping analysis, routing of flow lines, performance of piping analysis, follow-up of project plans and schedules, liaison with client.

Project Engineer

* + - * Nidaros 1, Production System. Conceptual Engineering of novel system for high-reliability, high-productivity subsea template including Xmas tree design, manifold template including Xmas tree design, manifold control tie-in, intervention and installation.
      * Concrete Tension Leg Platform, client Peconor.

Responsible for development and evaluation of installation procedure and design layout of wellhead module.

* + - * Troll East Project, client A/S Norsk Hydro

Responsible for static and dynamic analysis of risers.

* + - * Single Satellite Well Project, client Statoil

Responsible for planning and cost estimates for a single satellite well.

* + - * Responsible for development of installation procedures, development of marine operations.
      * Sleipner, responsible for evaluation of corrosion inside pipelines.
      * Responsible for performing hydrodynamic analysis of risers.

Education

1982 MSc Civil Engineering, NTNU

Courses

* Courses in Petroleum Production, NTNU
* Finite Element methods in structural analysis, Static and dynamic motion of marine structures.