

Name Frank Olav Karlsen  
Date of birth 07.04.1976  
Nationality Norwegian  
Language Norwegian (native), English  
Profession BScs Electronics and Computer science  
Position Technical Manager Control Systems/Automation

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## EXPERIENCE SUMMARY

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**Engineer (bachelor) with technical educated background within electronics and computer science. More than 20 years working experience from SAS, automation, instrumentation and electrical (multidiscipline) scopes within offshore related projects, service, support, trouble shooting and MC/commissioning.**

**Extensive experience within safety systems (F&G/ESD/PSD), Drilling Control systems, HVAC, wellhead control and automated systems in general. Covering: PLC (Siemens, GE, Allen Bradley, WAGO), HMI/VDU (Siemens, GE, WAGO), fire panels (AutroSafe, BS100, Eltek), instrumentation and industrial networks (bus and ethernet).**

**Experience as Installation- and commissioning lead, electrical supervisor and 3rd party inspection/verification.**

**In depth knowledge of related standards/regulations, including Equinor's work process for Completion. Experience with SAP, ProCoSys (from Equinor and Wintershall) and document control within ProArc. High working capacity. Handles stressful and hectic periods well – especially on site – with HSE as main priority and focus.**

**Fluent English (written and spoken), native Norwegian.**

## EXPERIENCE

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11.16 – Present SPEO Products AS

**Technical Manager Automation (CTO)**

- Develop technology for electro-hydraulic solutions
- Project manager
- Automation consultant. Programming, testing and commissioning (Norway, Saudi-Arabia, UK) onshore industrial projects, offshore oil and gas industry projects and floating windmill pilot project (Hywind).
- Installation- and commissioning- lead, offshore safety systems (F&G) upgrade.
- Project coordinator, offshore safety systems (ESD) upgrade.

07.14 – 10.16 Origo Solutions AS

**Service & Operations manager**

- Responsible for Service & Operations activities
  - Managing personnel and projects for service and support
  - Responsible for the company 24/7 support service
  - Contract responsible for service & support agreements
- Responsible for Integrated Operations
  - Defining the company concept for integrated operation
  - Responsible for Remote Support Center
- Follow up service jobs from the office and on site and participation in service jobs and upgrades. Ensure good communication between client and supplier on site.

02.14 – 06.14 North Atlantic Drilling (Consultant via Roxel)

**Electrical Supervisor**

Winterization, classing and maintenance of West Alpha at Westcon Yard, Ølensvåg, Norway

- Supervising jobs and packages related to electro/automation
- Heat tracing, heated walkways, steam heaters/fans, HVAC, Ice Defense, Wind Enclosures, Subsea
- Commissioning, MC, handover
- Ensuring good workflow and communication between different companies and professions.
- Verification and quality checking. Also checking jobs against current standards (NORSOK, ISO, etc.)
- Reporting to package owners and project management

07.13 – 06.14 Roxel Products AS

**Senior Service Engineer**

- Supervisor Electro/Automation (Rig Upgrade, classing and winterization)
- 3<sup>rd</sup> party inspection (Energyst (CAT) - XQ Offshore Power Modules)
- Customer Support
- Service Electro/Automation (Offshore - North Sea and African West Coast)
- Equipment Testing (Intelligent Operator Chair, Drilling machines/equipment, Riser Tension, HPU)
- PLC/HMI Programming (Siemens, Allen-Bradley, Stahl)
- NORSOK and ISO regulations

05.11 – 06.13 Cameron Sense

**Software Engineer**

- Follow-Up on (sub)suppliers, local and abroad (Denmark and Singapore)
- Equipment Testing (IAT/FAT) of drilling control systems, LIR/LER, Drillers Cabin, IOC (intelligent operators chair), HVAC control
- HVAC Control systems
- Industrial network design (Profinet, Profibus, Ethernet)
- PLC Hardware configuration and communication setup.
- PLC software for drilling control systems.
- Computer utility software for drilling control systems (highspeed data loggers, CCTV, etc.).

04.03- 05.11 Origo Engineering AS

**Project Engineer / Senior Engineer / System Specialist Technical**

- HMI and PLC software engineering for fire & gas detection systems, ESD systems and process control for offshore installations
- IAT/FAT testing, commissioning and customer support for company delivered installations offshore
- Project manager for service projects
- Customer liaison
- After sales
- Consultant for Aker Solutions MH

06.02 – 04.03 Aker Solutions MH

**Application Engineer**

- Engineering of HMI systems for offshore drilling control system (100+ screens on systems with more than 20 clients, more than 15 PLC nodes, redundant HMI servers, database server, CCTV, etc.)
- Responsible for performing FAT with customer to verify the HMI application.
- Follow-up commissioning from the office towards construction yards and sites.

**EDUCATION**

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1999 – 2002	Bachelor's degree in computer science
1997 – 1999	Technical College – Computer electronics
1996 – 1997	Norwegian Army – Mobile Infantry
1993 – 1996	Technical high school – Electronics, computer electronics

**COURSES**

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AutroSafe Configuration - Autronica

First aid course

FSE

Safe Job Execution

Offshore Basic Safety and Emergency Training

SIL-GL/IEC 61508, part 1

Industrial Network Security &amp; Remote Access (Phoenix Contact) (1 day)

Minimum Industry Safety Training -MIST (4 hours)

Mærsk H2S Gas Course (1/2 day)

Obligatorisk opplæring for verneombud, medlemmer av arbeidsmiljøutvalg og ledere (40h)