

Name	Per Martin Brøten
Date of birth	08.04.1965
Nationality	Norwegian
Language	Norwegian (native), English
Profession	Responsible Installation Contractor
Position	DSB certified Competent Electrical Contractor

EXPERIENCE SUMMARY

Engineering / installation management for multidiscipline projects
 Contract owner for all Semco Maritime Telecom frame agreements in Norway
 Management of Semco Maritimes Telecom activities in Norway
 Installation management for multidiscipline projects offshore
 Risk assessments and risk-based project execution model in deliveries.
 Discipline management for Electrical and Automation disciplines
 Project management of EPCI deliveries to On-/Offshore customers.
 Discipline management of Electrical / Automation deliveries to On/offshore projects
 Wide experience in design, developing, testing, implementation and commissioning of electrical, instrument and Control Systems based on ABB 800XA (2003 – 2014) Simatic S5/S7 1995-2014.
 Experience with Control Networks.
 OPC and Data integration
 Tender work and technical sale support.

EXPERIENCE

08.20 – Present SPEO Products AS

Competent Electrical Contractor

- Engineering and Commissioning responsible Electrical
- Develop technology for electro-hybrid solutions
- Responsible for Electrical discipline

2019 – 2020 GOT Products AS

Competent Electrical Contractor

- Responsible for Electrical installation towards 3party customers
- Engineering Management
- Design and installation of maritime electrical installations in fishing vessels produced at GOT Skogsøy AS.

2017 – 2019 Origo Solutions AS

Competent Electrical Contractor, Engineering- / Commissioning management on Various projects:

- Wintershall Norge: F&G Node Upgrade Brage
- Aker BP: Project Portfolio Alvheim
- Vår Energi: Turret Control system Upgrade Balder FPU
- Equinor: F&G Node upgrade Snorre A
- Equinor: Helideck monitor upgrade Norne
- Equinor: ESD /PSD upgrade Kårstø
- Equinor: ESD /PSD upgrade Kollsnes
- FPE: Electrical installation contractor for all projects April 2017 -2019

2014 – 2017 Semco Maritime AS

Responsible Electrical Installation Contractor and Manager Telecom

- Deluge Water spray System
- ExxonMobil Norway Frame agreement Portfolio
- COPNO Frame Agreement Portfolio
- COSL Norway Frame Agreement Portfolio

- 2003 – 2017 Origo Engineering / Origo Solutions
Responsible Electrical Installation Contractor / Project Manager / Syst. Specialist
- Alvheim IO upgrade
 - MTB Fast attack craft
 - Snorre A drilling facilities upgrade
 - Node Split ESD system Melkøya
 - Sleipner CAP panel
 - Furnace Upgrade Furnace 2 Elkem Salten
 - Talisman – Gyda ISC
 - Songa Trym F&G upgrade
 - Eramet Norway Control system upgrade
 - Oseberg C Control Systems Upgrade Study
 - Statfjord A/B/C F&G Control Systems Upgrade FEED Study
 - FPSO Knock Allan Commissioning
 - F&G upgrade Snorre A
 - Statfjord A/B/C F&G Control Systems Upgrade concept Study
 - MSV Regalia F&G system upgrade
 - Eramet Norway Sauda Furnace 11 upgrade
 - Elkem Solar 5000 MT Furnace upgrade
 - MTB Fast attack craft central technical control system
 - Eramet Norway CO gas distribution system
 - Eramet Porsgrunn and Sauda MOR process upgrade
 - Elkem Salten Furnace 2 upgrade
 - Eramet Porsgrunn Furnace 10 upgrade
 - Eramet Sauda MIX Process upgrade
 - COPNO Frame Agreement Portfolio

- 2002 – 2003 EL-Proffen AS
- Responsible for calculation and modelling of central purchasing contracts with the main delivery partners on behalf of EL-Proffen AS.

- 1985 – 2002 Siemens AS
- Automation engineer – Various automation and industry projects.
Electrician – Various automation and industry projects.

EDUCATION

2010	Energi Norge / DSB - Fagansvarlig Elektroinstallatør Gr L
1992 - 1993 Engineers	Kristiansand tekniske skole - Economy and Administration for
1990 - 1992	Kristiansand tekniske skole - Technician Electrical
1987	Electrician Gr L

COURSES

- 2016 FSE 2014 Offshore Low-Voltage
- 2015 Basic Safety and Emergency Training – Refresher Course
- 2013 ATEX course
- 2013 Prosjektering av UPS anlegg
- 2011-2013 Coaching for performance (Certified team coach)
- 2011 NEK 400 2010
- 2010 RVK Regelverks kompetanse
- 2009 HMS 40t grunnkurs
- 2008 Praktisk bruk av analyseverktøy for driftssikkerhet og vedlikehold FMEA – FMECA – Hazop Feiltreanalyse etc.
- 2008 Kontrakts juss for ingeniører og prosjektledere
- 2007 ABB 800 XA Safety Programming
- 2006 OLF grunnleggende sikkerhets og beredskaps opplæring
- 2005 Model based adaptive control
- 2005 ABB 800XA Developing Visual Basic Applications using Aspect Express
- 1997 College of Agder, Programming C++
- 1997 Simatic Step 7 programming