

Peter Håkansson, MS, PE

Senior consultant - Forensic Engineering, East Region

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PROFILE

Peter Håkansson has 14 years of experience as a marine engineer working in the consultancy business and in the merchant navy as engineer on oil tankers.

As a consultant Peter has experience from many lines of industries, such as industrial fish processing facilities, biotechnology plants and hospitals. The tasks concerned mainly utility heat, steam boilers and ventilation regarding process optimization and compliance with danish and European legislation.

KEY STRENGTHS

- Boilers, water and steam
- Natural gas and biofuels fired boilers
- Heating systems
- Electrical installations
- European legislation regarding machinery
- Energy savings in buildings
- Heat pumps
- Water circulation pumps.
- Building automation and control

INDUSTRIES

Forensics, energy and power commercial and industrial buildings.

EDUCATION

Marine Engineer, 2007

Copenhagen Marine Engineer College

Authorization as electrician, 2006

Copenhagen Marine Engineer College

TRAINING

2009 **Energy labeling consultant**

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- 2009 **Course, pressure equipment directive, boiler water treatment, corrosion**
 FORCE Technology
- 2011 **Course, CE-labeling, European Union legislation**
 FORCE Technology
- 2012 **Buildings Physics, moisture in buildings**
 Danish Technical University (DTU)
- 2016 **Project management and building law and legislation**
 FORCE Technology

PROFESSIONAL BACKGROUND

February 2020 - Present: ENVISTA Forensics, Denmark, Karlslunde
Senior Consultant

2014-2020: FORCE Technology, Denmark, Kongens Lyngby
Project Manager

2011-2014: AI Architects and engineers, Denmark, Copenhagen
Consultant

2008-2011: FORCE Technology, Denmark, Kongens Lyngby
Consultant

2007-2007: Torm, Denmark, Hellerup
Marine Engineer

PROFESSIONAL EXPERIENCE

2020 – to date

Claim assessment of various mechanical and electrical damages e.g. a labyrinth seal in a steam turbine at a combined heat and power (CHP) plant, and corrosion damage in a cleaning machine for clothes.

2019

Design of organic rankine circle (ORC) plants to retro fit in ferries. The scope was to utilize the main engines waste heat from the exhaust gas and convert it into electrical power, which resulted in fewer running hours on the auxiliary engines. The ferry's total fuel savings could reach 10 %.

2019

Expert appraiser in a dispute between a Danish boiler manufacturer and a British cucumber grower. The scope of the task was to determine the power output of a bio mass fired boiler, and to determine whether the assembly of the boiler and the straw feeder complied with the CE-labeling legislation.

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2008-2020

Counselling on water treatment, emissions and economical operation of steam and heat water boilers in factories and hospitals, and calculation of economical benefits of energy improvements.

2008-2020

Design and project management of conversion of heating systems from boilers to district heating, including design of improvements in central heating systems. The projects contained preparing of tender dossier and contracting with entrepreneurs and supervision with the performed work.

2011

CE-labeling of an insulin factory at Novo Nordisk. The task contained many aspects such as assessment of various machines safety devices in accordance with applicable standards, and reviewing of user manuals to check if they were up to date if the machine had been subjected to any changes. Finally the machines technical dossier needed to be kept up to date.

2007

Marine engineer in the shipping company Torm, aboard product tankers sailing Europe and North America carrying refined product such as gasoline and naphtha. The key tasks aboard was to ensure that service and maintenance on main engines and auxiliary engines was carried out.