

Curriculum Vitae

Thomas Nielsen

Personal Data:

Date of birth: 23-06-1973
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Resume

Electrical engineer B. Sc. with broad experience and practical approach to engineering

A professional, flexible and service-oriented Senior Electrical Engineer with close to 20 years of experience from onshore and offshore projects, automation and technology.

I have been working with both simple and complex projects and has been involved in client presentations, FAT, ATEX and participated in sea trials of delivered equipment. Experience in managing complex projects from DD engineering to handover incl. documentation. International experience and good communication skills. Experience covers all aspects within electrical engineering and Applications software. Excellent skills in designing, purchasing, ATEX, cost control, test/commissioning and handover.

Major achievements:

- Reaching the set deadline on the Island Innovator project. Coordinating and planning installation, connecting, MCC and Pre Comm. on two complete thruster systems and 8 other subsystems within a very tight deadline. It was a process where I gained a lot of experience.
- Fixing and updating the Fire & Gas / ESD system on Songa Dee.
- Implementation of energy optimization initiatives that saves ALK Abelló for 100K € annually and identification of potential energy optimizations that could save another 50k € annually.

Key Competences

Management	: Leadership, staff management, budgets, planning, coaching, conflict handling, project management, lean, contract negotiations and stakeholder management.
Project	: Package lead, project execution, FAT, VOR handling, planning, follow up, status reporting to management, delegation of tasks, decision making regarding technical solutions, commissioning.
Engineering	: Electro engineering, automation, programming (see programming experience below), electrical installations (LV, MV), SCADA, PLC control, control engineering, machine control, GMP, GaMP, ATEX, Ex, Oil & Gas, regulations (DNV, NORSOK, DSB, Statoil governing documents), Offshore engineering and Red Line markup
Teaching	: New protocols and using SCADA at ALK Abelló, mentoring of new engineers on the team.

Education and Courses

2010 - 2016

Other Courses

- 2019 Atex refreshing, Practical communication
- 2016 PC Schematics, Caddy++
- 2013 FSE low & high voltage on offshore installations, ATEX basic
- 2012 Offshore safety course and health certificate for Offshore and marine.
- 2011 GaMP, GMP
- 2010 Practical PID regulation

Before 2010, the municipal management education, Fundamentals of water supply engineering, Danish safety course '§ 9', Introduction to ATEX

- 2000 - 2002 **PLC Courses**
 2002 Allen-Bradly ControlLogix
 2001 Allen Bradly SLC-500, Allen-Bradly ControlNet, Siemens Profibus - DP
 2000 Siemens S7 Programming 1 & 2
- 1997 - 2001 **Electrical engineering (B.S. engineering)**
 Engineering College of Copenhagen (Denmark)
- 1991 - 1994 **Electrician Apprentice**
 Coloplast A/S

Language skills

- Danish : Native language (this includes understanding of other Scandinavian languages)
 English : Good verbally skills, good skills in writing
 Chinese : Poor verbal skills, no skills in writing (high cultural understanding)

Programming Experiences

- PLC types : Siemens S7, AB SLC 500, AB PLC 5, ControlLogix, ABB 800xA
 Bus Systems : Siemens MPI, Siemens Profibus-DP, Siemens ProfiNet, AB DH-485, AB DH +, ControlNet, DeviceNet.
 Software : Step7, VIA Portal, RSLogix, RSLinx, VBA, iFix, WinCC, WinCC Flexible.

IT Experiences

- Office applications : Microsoft Office; Excel, Word, Visio
 DMS/CRM : Meridian, Highstage, ProArc, Superoffice, Share Point, Promis
 Programming : Visual Basic for Applications
 DTP / Design : AutoCAD, AutoCad-ELSA, Photoshop, InDesign, Illustrator
 Web / Multimedia : JavaScript, PHP, Joomla, Wordpress
 Database : Access, MySql

Work experience

- 01/2019 – Freelance consultant (Alfa Level A/S)**
 Location : Søborg, Denmark
 Job type : Project based via Lund E&C
 Position : Senior engineer, Electrical and Instrumentation
 Responsibilities : Production and process engineering
 Electrical project lead.
 Engineering, quotations, Redline, documentation, testing and supervision.
 Primary tools used:
 • Promis – Document handling tool.
 • Adobe acrobat – drawing comments like As Built.
 • Eplan, AutoCad and Caddy++ – Engineering and drawing.
- 12/2017 – 12/2018 Freelance consultant (NNE A/S)**
 Location : Hillerød, Denmark
 Job type : Project based via Lund E&C

Position : Senior engineer, Electrical and Instrumentation
 Responsibilities : Pharma
 Electrical project lead.
 Engineering, Redline, documentation, commissioning, testing and site supervision.

01/2016 – 11/2017 Robotek Gruppen A/S

Location : Birkerød, Denmark
 Job type : Permanent
 Position : Project manager, Electrical
 Responsibilities : Electrical construction
 Project management.
 Engineering, Programming, Cad drawing (mechanical/electrical), documentation, Site supervision.
 Tender and offer calculations, sales.

04/2015 – 11/2015 BWSC

Location : Londonderry, Northern Ireland
 Job type : Project based
 Position : Senior Engineer, Commissioning
 Responsibilities : Power plant
 Electrical and instrumental commissioning of woodchip fired power plant.
 Mechanical and electrical troubleshooting. Operational supervision during nightshift.

01/2014 – 03/2015 Astra North as (Consultant at OneCo Solutions)

Location : Stavanger, Norway
 Job type : Project based
 Position : Senior Engineer, Automation
 Responsibilities : Oil & Gas.
 DCC, Engineering and production supervisor on several project for major client.
 Engineering, Cad drawing (mechanical/electrical), documentation (Statoil level).
 Lead on scaling from adhoc production to serial production.
 Primary tools used:

- AutoCad – GA drawings and mechanical drawings. w/ELSA electrical drawings.

05/2013 – 11/2013 Astra North as (Consultant at Odfjell Dilling)

Location : Stavanger, Norway
 Job type : Project based
 Position : Senior Engineer, Electro, instrument & automation
 Responsibilities : Oil & Gas.
 Project management for Island Innovator yard stay 2013. Engineering and follow up onsite.
 Electro lead in the last phase of the restoration after a major water damage to Island Innovator. This include planning, engineering, follow up and status reporting. Participating in as-built phase.
 Primary tools used:

- Excel – Daily status reports and project progress, based on own developed spreadsheets.
- Proark – Document handling tool.
- Adobe acrobat – drawing comments like As Built.

09/2012 – 05/2013 Sepro Technology AS

Location : Stavanger, Norway

Job type : Permanent
 Position : PLC & HMI Software Engineer
 Responsibilities : Marine & Offshore
 Electro engineering for Sepro LARS and winch systems. This includes design, engineering, programming and documentation.
 Service and mobilizing for delivered systems. Both onshore and offshore (boat and rig)
 Commissioning and FAT of Sepro systems.
 Offshore field work. Updating fire&gas / ESD system (continued from my time at OncCo)
 Primary tools used:

- Siemens STEP 7 - Used for programming new project and for updating existing programs.
- Siemens STEP 7 - Used for Commissioning Offshore primary ProfiNet communication configuration. (Hardware configuration and System diagnostics included)

04/2012 – 08/2012 Astra North as (Consultant at OneCo Solutions)

Location : Stavanger, Norway
 Job type : Project based
 Position : Senior Engineer, Automation
 Responsibilities : Oil & Gas.
 Project management for small projects (less than 2 mill. NOK)
 Engineering, Programming, Cad drawing (mechanical/electrical), sales
 Adhoc documentation (Aibel/Statoil level).
 Adhoc PLC programming.
 Offshore field work. Updating fire&gas / ESD system Offshore and engineering/designing the pilot project for a complete new Fire&Gas / ESD system.
 Primary tools used:

- AutoCad – GA drawings and mechanical drawings. w/ELSA electrical drawings.
- Siemens STEP 7 - Used for programming new project and for updating existing programs.
- Siemens STEP 7 - Used for Commissioning Offshore primary Profibus communication configuration. (Hardware configuration and System diagnostics included)

04/2009 – 01/2012 ALK Abelló A/S

Location : Hørsholm, Denmark
 Job type : Permanent
 Position : Automation Engineer
 Responsibilities : Pharmaceutical.
 Maintenance of control systems. Including network systems, bus systems, SCADA, PLC. Implantation of changes according to current GMP-regulations.
 Programming and configuration of PC and PLC systems. Converting PI-diagrams to user interfaces on SCADA systems.
 Engineering of improvements from idea to implantation.
 Assisting in qualification and validation of production equipment and automation systems.
 Primary tools used:

- RSlogix 5, 500, 5000 and RSnetworkx
- iFix, iHistorian
- Siemens STEP 7 - Used for troubleshooting only.

09/2008 - 04/2009 FLS Automation A/S

Location : Valby, Denmark and Ho Chi Minh, Vietnam
 Job type : Permanent
 Position : Project Engineer
 Responsibilities : Production and process engineering.
 FAT and commissioning of control systems. Including bus systems, SCADA, PLC programming and configuration of PC systems. Update SCADA systems to reflect recent changes on PI-diagrams. Testing and configuration of various field instruments.

Primary tools used:

- ABB – used in FAT
- Siemens STEP 7 / PLCSIM - Used for modifying an existing program to run on PLCSIM (mutable PLC on same PC)
- Siemens STEP 7 - Used for Commissioning on site in Vietnam primary Profibus communication configuration and Simocode. (Hardware configuration and System diagnostics included)

12/2006 - 09/2008**Self-employed**

Location : Helsingør, Denmark
 Job type : Permanent
 Position : Certified electrician / electrical engineering
 Responsibilities : Building and civil engineering, Consultant.
 Various electrical installation work and consultancy work. canvassing sales, client contact and negotiations, accounting and documentation.

10/2003 - 11/2006**Helsingør vandforsyning**

Location : Helsingør, Denmark
 Job type : Permanent
 Position : Foreman (Værkmester in danish)
 Responsibilities : Energy and environment
 Operation and maintenance of 5 municipal waterworks, including planning, securing the quality of the produced drinking water. Personnel management and other management tasks.
 Keeping updated on laws and regulations regarding extraction and production of potable water. Holder of electrical license. Preparation of tender material and proofreading of PI diagrams for renovation of the automation systems on the waterworks.

01/2001 - 10/2003**HV-Turbo A/S**

Location : Helsingør, Denmark
 Job type : Permanent
 Position : Electrical engineer.
 Responsibilities : Production and process engineering.
 Preparation of lesser control systems, hardware and software design and testing of these. Updating as-build documentation. Commissioning and troubleshooting onsite in Asia combined with client contact and negotiation. Also some mechanical activities like disassembly and assembly of turbo blowers for inspection and diagnostic. Commissioning in ex-environment on a paper mill in South Korea.

Primary tools used:

- Siemens STEP 7 / PLCSIM - 20-30 small control systems mainly S7 but also S5. Programming in FDB and LAD, Desk-testing with PLCSIM. Communication configuration MPI and Profibus. (Hardware configuration, Communication configuration and System diagnostics included)
- Siemens STEP 7 - Commissioning of Profibus communication on site in China. 3-4 different sites.
- RSlogix 500, 5000 and RSnetworx – 10-20 small control systems mainly SLC500 but also ControlLogix. Communication configuration of

DeviceNet and ControlNet. (Hardware configuration, Communication configuration and System diagnostics included)