

CV

Nick Weppenaar

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Born 14-Jul-1976
Married, no children



Summary

Experienced data scientist who has developed and tested several new-to-the-world asset monitoring applications. I have a deep knowledge of sensor technologies and analytics coupled with a strong commercial and strategic focus.

Core competencies

Sensors: Strain, temperature, pressure, force, angle, position, speed, vibration, gas concentration

Data science: Data handling, statistics, visualization, predictive analytics, anomaly/event detection, machine learning

Programming and software: Python (pandas, numpy, matplotlib, scikit-learn), SQL, Matlab, MS Office (including MS Project), Jira, SAS

Project management: Goal setting, risk assessment, change handling, stakeholder management

Innovation: Identifying opportunities, business cases, concept studies, process improvement

Certifications

2016 IPMA level D project manager

Education

1996-2003 **Copenhagen University, M.Sc. in physics**
Specialized in optics and complex systems, minored in philosophy.

- Master's thesis on period-doubling in sonoluminescence.

Languages

Danish: Native language
English: Fluent
German: Tourist level

Work experience, selected

2018-



Senior Statistical Programmer, Novo Nordisk

Working as trial programmer on the PIONEER project.

- **Data analysis** of clinical trial data within the CDISC clinical framework.
- **Interface** with Data Management to ensure the correct flow of data through various databases and data formats.
- **Development and deployment** of IT tools to improve automation and quality.

Main results:

- Within three months of starting employment, I had successfully implemented software tools that had been requested by technical personnel for five-plus years.

2014-2017



Innovation Manager, NOV (world leader in offshore platform components)

While having this position, I still spent 50% of my time as data scientist/development engineer described in my previous position.

- **Chairman** since 2011 of an eight-man group handling 50 new proposals per year. I oversaw the process and ensured progress for the best proposals.
- **Business plan creation** for proposals with investments in the 50 million dkk range and market potentials (net present value) in the 100+ million dkk range.
- **Stakeholder management** from factory floor to top management.
- **Project management** of one fast-track development project from earliest concept to launch, as well as several early-stage feasibility studies.

Main results:

- When I became chairman of the eight-man group, it eliminated a backlog of 200 proposals over a two-year period while also processing new incoming proposals.
- I successfully managed the development of a new-to-the-world product.

2007-2014



Data Scientist/Development engineer, NOV

- **Company-wide subject matter expert** on sensors and data analysis.
- **Data analysis** of large datasets (over 1 trillion data points) and creation of algorithms for predictive maintenance and event detection.
- **Product development** of three fiber optical sensor systems for condition monitoring on offshore platforms, two of them new to the world.
- **Project work:** Handled the delivery of condition monitoring systems on three major client projects.
- **Collaboration** with Rice University (US) on a feasibility study for a fiber optic gas sensor with ppm-level sensitivity.

Main results:

- I brought three fiber optic monitoring technologies from initial concepts to fully realized products.
- The new methods I designed for event detection were proven to work in full-scale tests and exceeded client requirements.

2003-2007

See experience from this period on [linkedin.com/in/weppenaar/](https://www.linkedin.com/in/weppenaar/)