



Markus Knutsen

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Summary

Installation Analysis Engineer at TechnipFMC with 1.5 years of experience within installation analysis of offshore structures and pipelines with OrcaFlex, data analysis and automation with Python and execution of offshore operations as a project engineer. M.Sc. in Marine Technology and Information Technology (NTNU), specializing in hydrodynamics and CFD. Strong Python skills for solving engineering tasks with automation and data analysis, with experience as the responsible developer of a python based automatic pipelay analysis tool.

Experience

Installation Analysis Engineer

TechnipFMC

Aug 2024 – Present

Lysaker, Oslo

Conduct installation analysis of offshore structures and pipelines supporting safe and efficient subsea operations. Develop Python tools to automate and streamline installation analysis workflows and data processing. Perform technical data analysis and visualization, combining OrcaFlex and Python, for installation analysis data. Served offshore as project engineer onboard installation vessels, directly supporting execution of subsea operations. Contributed as installation analysis engineer for projects Utsira High iEPCI, Johan Sverdrup Phase 3 and LNG Mozambique.

Operations Technician

Kiona

May 2023 – Jul 2024

Trondheim, Norway

Analyzed and managed alarms in a 24/7 monitoring center and supported operational troubleshooting. Worked with large-scale sensor and alarm datasets across Norway and Sweden and contributed to service- and customer support.

Sales Associate

Kjell & Company

May 2022 – Jun 2023

Trondheim, Norway

Sales of electronic household appliances, conducting customer needs assessments, while delivering excellent customer service. I assumed responsibilities in store management as well.

Conscription – Signal Battalion

Norwegian Armed Forces

Aug 2017 – Jul 2018

Bardufoss, Norway

Education

Norwegian University of Science and Technology (NTNU)

M.Sc. Marine Technology and Information Technology

Aug 2018 – Jun 2024

Trondheim, Norway

Thesis: *Numerical Investigation of Uniform Flow Around Dual Step Cylinders.*

Numerical study of wake topology and force response in laminar flow ($Re_D \approx 150$), analyzing how geometric ratios influence vortex shedding and structural loading of cylindrical structures used in offshore engineering.

Skills

Engineering: Installation Analysis, Hydrodynamics, CFD, Offshore Operations

Tools: OrcaFlex, Power Automate, Docker, Linux

Programming: Python, Git, DevOps, C++, JavaScript, SQL, LaTeX

Languages: Norwegian (Native), English (Fluent)