

Profile

Ludovic Nikon

marine scientist | naval architecture and marine engineering

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A M Sc in Hydrodynamics and Marine Engineering from the Engineering school Centrale Nantes, France with specialized knowledge and experience in (damaged) stability calculations, forensic investigations, hydrodynamic studies in relation to roll resonance, mooring studies, metocean data analyses and wave studies.

For large motions of ships and evaluation of roll resonance Ludovic has co-developed the METIS Time-Domain model as to simulate large non-linear motion response of ships in waves.

He is able to model ships of various classes used for mooring studies in combination with Aktis DMA or SHIP-Moorings as well as maneuvering studies in combination with SHIP-Navigator.

His modelling abilities include the use of the following ship hydrodynamic models: METIS TD (Aktis), Aktis DMA (Aktis), SHIP-Moorings, SHIP-Navigator, AQWA (ANSYS), Orcawave (Orcina). In addition, Mr. Nikon uses the following software: Matlab, AutoCAD (progeCAD), SolidWorks.

Experience record

Forensic investigations

- **Atlantic Ocean** Expert witness support for evaluating the metocean conditions for an investigation related to the loss of cargo off the coast of Portugal, 2025
- **English Channel** Expert witness support for evaluating the trajectory of a drifting vessel which was rescued by salvage tugs to avoid landing on the French shore, 2025
- **South Africa** Expert witness support. VDR / GPS data analyses to calculate / determine ship motions of a container vessel involved in container loss, 2025
- **North Sea** Expert witness support for evaluating the vessel motions and metocean conditions for an investigation related to the loss of cargo in the German Bight, 2024
- **Arabian Sea** Expert witness support for evaluating the vessel motions and metocean conditions for an investigation related to cargo shifting and resulting loads in containers, 2023.

Moored ships

- **Qatar** Dynamic Mooring analysis of a RoRo and General Cargo vessel for a new port development, 2024
- **India** Dynamic Mooring analysis of a new LNG Terminal in the Bay of Bengal with ship-to-ship operations. The analysis included the effect of passing vessels and various causes generating extreme conditions, 2024.

Metocean

- **R&D** HAWA-III JIP XBeach modelling of infragravity waves, 2024.

Others

- **Naval Group** Design engineer for emergency power units, 2022.

Languages
French
English

speaking
native language
fluent

reading
excellent

writing
excellent