



**Simon Mackay**  
MEng CEng MRINA

**Director of Naval Architecture**

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Simon is a Chartered Naval Architect, with extensive experience in the design and analysis of ships and marine structures. He has practical experience of working in a repair shipyard and onboard ships, to combine with his technical analysis skills.

He has attended damage surveys and wreck removal operations on behalf of H&M Insurers and P&I Clubs, as well as providing technical advice to national authorities during active salvage cases. He has experience in preparing expert opinion advice on naval architecture issues and has given oral evidence at London Arbitration.

Simon has provided design consultancy services to ship owners, shipyards and designers, covering stability analysis, structural design and safety engineering for newbuild projects as well as modifications to existing vessels. This includes preparing documentation for submission to Class and Flag for approval. He has completed structural analyses using Finite Element Analysis (FEA) to assess ship designs against regulatory requirements and also to determine failure mechanisms for marine claims.

**Professional Qualifications**

Chartered Engineer, The Engineering Council

Member of the Royal Institute of Naval Architects

BOSIET qualification for UK and Norwegian offshore sectors

## **Academic Qualifications**

MEng – Naval Architecture and Small Craft Engineering, the Universities of Glasgow and Strathclyde

## **Surveying and Consultancy Employment**

Brookes Bell, Director of Naval Architecture

Lead the naval architecture department, providing a wide range of expertise to Owners, Operators, Insurers and Other Interests.

ABL London, Principal/ Senior Naval Architect

Prepared causation reports, assessing the root causes of marine failures and casualties involving ships, floating drydocks and shifting cargo. Provided expert naval architecture advice on statutory and classification rules for sale and purchase disputes. Attended collision and fire related casualties on behalf of Owners, P&I Club and Insurers.

Conducted condition surveys on a drill ship and FSPO, and marine warranty surveys for transportation of project cargo and towage operations.

General naval architecture consultancy services to ship owners, operators and ports. Covering areas of ship stability, structural design, regulatory compliance and mooring assessments.

Brookes Bell, Senior Naval Architect

Provided naval architecture consultancy for stability upgrades to Ro-Pax passenger vessels, including conducting incline experiments and attending model tests, as well as designing structural modifications and completed regulation GAP reviews.

Conducted detailed engineering analyses in support of marine claims and disputes, including preparing expert opinion reports. Completed damage and condition surveys on behalf of Owners, Charterers and Insurers.

Technical assessments for salvage and wreck removal projects, at both the tender assessment phase and during operations. Also attended on site at critical times to provide assistance, on behalf of P&I clubs and insurers.

Babcock Integrated Technology, Naval Architect

Completed a graduate scheme, experiencing the different working areas of a ship repair yard. Primarily engaged with providing engineering support for the docking and repairs/upgrades of Royal Navy ships. Also spent time in the fabrication division and assisting a Lloyd's Register surveyor.

**Surveying and Consultancy Experience**

- Ship Stability Analysis
- Structural Design and Analysis
- Mooring Assessments
- Damage stability and flooding simulations
- Physical model tests
- Rule Compliance
- Damage and Condition Surveys
- Crane failures
- Failure Investigations
- Assessment of marine claims and disputes
- Newbuilding disputes
- Salvage and Wreck Removal
- New Build Disputes
- Cargo Stowage and Securing Assessments