



ALISTAIR MURPHY

Naval Architect	Brookes Bell Safety at Sea 2nd Floor 280 St. Vincent Street Glasgow G2 5RL
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Alistair Murphy is a Naval Architect at Brookes Bell Safety At Sea Ltd. He has a BEng in Naval Architecture & Ocean Engineering from the Glasgow University, working for BMT DSL for five years after graduation, before joining Brookes Bell Safety At Sea in 2007. Alistair's core experience is in the field of intact and damage stability, routinely performing stability calculations to both deterministic and probabilistic stability standards on a variety of ship types and sizes. Alistair also has experience in weight management, including developing upgrade solutions for draught increases and performing inclining experiments. He is an experienced NAPA user and has knowledge of other software packages e.g. Paramarine.

Alistair has worked on a large number of Ro-Pax projects deriving upgrade solutions to achieve compliance with the Stockholm Agreement and managing the model tests required to demonstrate compliance. Alistair is experienced in design optimisation, mainly focused on internal arrangements, developing various parameterised ship models and performing optimisations based on a range of design goals. Alistair has also worked on a number of casualty investigations performing grounding calculations, loading and hull girder strength analysis and developing models for flooding simulations.

EDUCATION AND QUALIFICATIONS

2001	BEng (Hons) 2/1 Naval Architecture & Ocean Engineering University of Glasgow, Glasgow, UK
2001	Member of the Royal Institution of Naval Architects (MRINA)

EXPERIENCE

2011 – Present **Brookes Bell Safety at Sea**

Naval Architect

Project Management
 Naval Architecture
 Stability upgrading to SOLAS'90/STOCKHOLM Agreement
 SOLAS 2009 Damage Stability
 Parameterisation and Optimisation
 Accident Investigations

2007 – 2011 **Safety at Sea Limited, Glasgow, UK**

Naval Architect

Project Management
 Naval Architecture
 Stability upgrading to SOLAS'90/STOCKHOLM Agreement
 SOLAS 2009 Damage Stability
 Parameterisation and Optimisation
 Accident Investigations

2003-2007 **BMT DSL, Bristol, UK**

Naval Architect

Seconded To:
 Aircraft Carrier Alliance (ACA) Future Aircraft Carrier (CVF) Project,
 Bristol, UK

Lead Stability Naval Architect

- Superstructure requirements assessment.
- Development of tank plan requiring international co-operation.
- Undertaking surface area calculations for outfit material cost estimation
- Monitoring watertight subdivision and weight changes throughout various design iterations.
- Developing stability submission models, documentation and calculations.

Seconded To:
 UK MOD Frigates Integrated Project Team, Bristol, UK

Lead Stability Naval Architect

- Maintaining stability and structural certification on Type 22 and Type 23 Frigates.
- Accident Emergency Response
- Organisation and supervision of Inclining Experiments
- Organisation and supervision of Structural Surveys
- Liaising closely with MOD Naval Authority (Stability and Structures) and Lloyds Register (Structures) to ensure compliance with requirements.