



GURPREET GREWAL

Naval Architect
Marine Engineer

Brookes Bell Safety at Sea
2nd Floor
280 St. Vincent Street
Glasgow G2 5RL

Telephone 0141 572 5570
E-Mail gurpreet.grewal@brookesbell.com

Nationality Indian
Mobile 07588 871189

Gurpreet Grewal is a Naval Architect for Brookes Bell Safety at Sea Ltd with a range of experience in marine operations and analysis. His first employment was as a seagoing marine engineer and he has accumulated ten years of experience at sea on container ships, car carriers and LPG carriers. Whilst working as a marine engineer, he also carried out conversion and commissioning work on seismic vessels in the North Sea. He retrained as a Naval Architect achieving his Bachelor of Engineering in 2009 before commencing his PhD on the topic of breaking wave impact loads and structural response. He has undertaken structural and fluid dynamics analyses on a number of legal cases most notably on the cause the structural failure of a tanker due to wave action.

EDUCATION AND QUALIFICATIONS

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|-------------|---|
| 2009 – 2013 | Ph.D. Naval Architecture and Marine Engineering
“Breaking wave impact loads and structural response”
<i>Universities of Strathclyde & Glasgow</i> |
| 2007-2009 | BEng. Naval Architecture and Ocean Engineering
<i>Universities of Strathclyde and Glasgow</i> |
| 2002 | Class 5 Motor Certificate of Competency (issued by Singapore MPA,
equivalent of MCA Class 4) |
| 2001 | Diploma in Maritime Studies (Marine Engineering)
<i>Singapore Polytechnic</i> |

EXPERIENCE

2013 -
Present

Brookes Bell Safety at Sea Ltd, Glasgow, UK

Naval Architect

Responsible for structural analyses for forensic investigations. Conducts aerodynamic and hydrodynamic design analyses. Responsible for Cable dynamics analyses of complex marine systems.

2009-2013

Universities of Strathclyde and Glasgow

Ph.D. Researcher, Dept. of Naval Architecture and Marine Engineering

Responsibilities included the teaching marine engineering courses and forensic structural and hydrodynamic analyses for court and arbitration. Contributed to research on the dynamics of wave impacts.

SEA-GOING EMPLOYMENT

2007-2008

Marine Exploration Partners A.S. (Norway)

Project Engineer

Carried out work on the conversion and commissioning of Seismic ships including mechanical design and structural layout.

1999-2005

A.P. Moller MAERSK A.S. (Denmark) MAERSK Line

Second Engineer

Served on container ships, car carrier and LPG tanker

Particular Consultancy Experience

- Investigation into initial cause of tanker involving wave impact
- Structural analysis of hull failure of container ship in rough weather
- Stress analysis of offshore machinery failure
- Structural analysis of grounding damage of bulk carrier
- Investigation into hull failure of tanker during ballasting
- Design analysis of novel MES system in rough weather
- Analysis of crane failure