



FERGUS MCCULLOCH
CEng MIMechE

Consultant Mechanical Engineer

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Nationality British

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An experienced and qualified Chartered Engineer specialising in safety, reliability and risk management with 15 years of Engineering Consultancy experience in the marine, renewables, nuclear, submarines, offshore and rail sectors. Skills include: HAZID/HAZOP planning and chair, quantitative and qualitative risk assessment, safety management systems and safety cases, leadership and project management, business generation.

Academic Qualifications

BEng (Hons) Mechanical Engineering. IMechE prize for outstanding project work

Postgraduate Diploma in Safety Engineering and Risk Management, full-time course funded through EPSRC grant

Chartered Engineer and Member of the Institution of Mechanical Engineers

Previous Employment History

McCulloch Risk Services Limited - Director

Frazer-Nash Consultancy Limited - Senior Consultant and Team Leader

Alstom Transport Limited, Birmingham - UK Project Reliability Engineer

Engineering and Consultancy Experience

- Safety management systems for innovative designs
- Safe Manning studies
- Safe Return to Port Assessment
- Risk modelling and design optimisation
- HAZID and HAZOP design, planning and facilitation
- Emergency shutdown systems requirements specification
- ALARP justification and optioneering
- Escape and evacuation analysis

Subject areas:

- Polar operations
- Offshore substation platforms
- Cruise vessels
- Marine evacuation systems
- Ro-Pax ferries
- Man overboard systems
- Special-purpose ships
- Nuclear submarines
- Marine propulsion systems
- Wave-powered energy converters
- Nuclear power stations
- Light rail systems
- Nuclear power stations
- J-lay vessel
- Safety-critical corrective actions development
- HAZID planning and facilitation
- Independent safety review
- Rolling stock design
- New build
- Refurbishment and modification
- Marine gas turbines