

## RÉSUMÉ AND CURRICULUM VITAE

### PERSONAL DETAILS & QUALIFICATIONS

**Name:** Richard Davison  
**Position:** Engineering Consultant  
**Nationality:** British  
**Education:** HND Yacht Design and Operations

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### EMPLOYMENT RECORD

<b>2019 - Present</b>	<b><i>Argo Engineering Solution Ltd</i></b> , Engineering Consultant
<b>2007 – 2019</b>	<b><i>BMT Nigel Gee Ltd</i></b> , Structural Engineer
<b>2006 – 2007</b>	<b><i>Fleet Support Ltd</i></b> , Design Engineer/ Naval Architect
<b>2001 – 2006</b>	<b><i>CETEC Ltd</i></b> , Design Engineer
<b>2000 – 2001</b>	<b><i>Green Marine Offshore Ltd</i></b> , Boat Builder
<b>1999 – 2000</b>	<b><i>2HO Ltd</i></b> , Boat Builder

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### RÉSUMÉ

I am a Structural Engineer with more than eighteen years' experience who has worked on projects mainly within the marine industry but also within the aeronautical and construction industries.

I have experience working on the structural design of vessels using various materials including aluminium and FRP to meet the requirements of all the major Class Societies.

I have gained experience using a multitude of specialist software packages for both design and draughting, these include programs such as Strand7, Ansys Workbench, Mathcad, Autocad, Autodesk Inventor, Solidworks and Rhino

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### EXPERIENCE – A brief summary of some of the projects I have had a key role in.

#### **MSV(L)**

Structural Engineer carrying out structural design including global Finite Element Analysis on the US Army's tri bow fast landing craft.

#### **Marine Rescue Vessels**

Structural Engineer carrying out the structural design of a 35 metre, 30 knot monohull and 40 metre, 35 knot catamaran rescue vessels for the Singapore Civil Defence Force.

### **70m LNG Ferry**

Structural Engineer carrying out the structural design of world first LNG 70 metre RoPax catamaran ferry to Bureau Veritas High Speed Craft Rules.

### **Wind Farm Vessel Fleet**

Structural Engineer working on the structural design of aluminium catamaran WSV's between 19 and 26 metres in length to various classification societies rules at both class level and detail design.

### **107m Motor Yacht**

Structural Engineer carrying out class level design for Oceanco yacht 'Y712', 107m high-efficiency, low weight super yacht structure.

### **Tide Class Tanker**

Structural Engineer working on the Structural Design Assessment (SDA) global Finite Element Analysis of a support tanker for the Royal Fleet Auxiliary.

### **Joint Support Ship**

Structural Engineer working on the Common Structural Rules, cargo tank Finite Element Analysis, on a joint support tanker for the Canadian Navy.

### **Hoverbarge Design**

Structural Engineer for the structural design of modular and monocoque hoverbarges with various payloads.

### **Project Gemini**

Structural Engineer working on the main tender lifting arrangement for world's largest aluminium sailing catamaran yacht.

### **New Caledonia 57m Catamaran**

Structural Engineer for 57m high sea state aluminium catamaran structure with FBMA for New Caledonia proven in service.

### **Sea fighter 70m 60 knot ONR demonstration catamaran**

Structural Engineer for re-fit and major hull modifications including new bow, stern, fight deck and wheelhouse. Vessel classed by ABS to new High-Speed Naval Rules.

### **18m Composite Egg Radome for Kai Tak (Hong Kong)**

Structural Engineer for 18m architectural radome fitted over new Kai-Tak cruise liner terminal in Hong Kong. Specification for radome requires RF transparency and structural adequacy for typhoon wind conditions.

### **Type 23 Frigate Air Filtration Unit Retrofit**

3D Draughtsman working on a refit design for installing updated air filtration units.

### **Precision Alignment**

Working as part of a team positioning ships systems including the glide path indicator on Naval vessels.

**Rolls Royce Trent 900 and 1000 Engine Ground Test Equipment**

Design Engineer for Rolls Royce Trent engine ground test intake and calibration tube design in advanced composites.

**Victoria House Meeting Room Pods**

Design Engineer working on 2 storey GRP pod structure for Alsop Architects.

**Subsea Well Head Protection Structure**

Design Engineer for novel sub-sea cage-type GRP protection structure for Shells North Sea Penguin field. Winner of Institute of Petroleum Award 2002.

**Assa Abloy Volvo 60**

Boatbuilder working as part of a team building the hull, deck and interior structure, using prepreg Kevlar foam sandwich construction.

**Playstation Maxi Catamaran**

Boatbuilder building and fairing the moulds for the bow and stern extensions. Laminating using prepreg carbon, aluminium honeycomb sandwich construction.

**Thunder 2**

Boatbuilder working as part of a small team building a Mark Mills designed 37' cruiser / racing yacht. The yacht was built using cedar speedstrip and GRP over laminate construction.

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**OUT OF WORK INTERESTS**

My main interests are cycling, sailing and climbing.

I enjoy a variety of cycling disciplines both on and off road. Having grown up racing cross country mountain bikes, I have been riding a number of Sportive events on the road in the last 15 years.

I have been sailing for over 30 years where I have enjoyed competing on both dinghies and yachts.