

RÉSUMÉ AND CURRICULUM VITAE

PERSONAL DETAILS & QUALIFICATIONS

Name: Dan Bigwood
Position: Engineering Consultant
Nationality: British
Education: MSc Offshore & Ocean Technology – Cranfield University

EMPLOYMENT RECORD

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| 2019 – Present | <i>Argo Engineering Solutions Ltd</i> , Engineering Consultant |
| 2017 – 2019 | <i>Quantum Offshore Ltd</i> , Design Manager |
| 2016 – 2017 | <i>ISO Spaces Ltd</i> , Design Engineer |
| 2015 – 2016 | <i>Eliquo Hydrok</i> , Design Engineer |
| 2007 – 2015 | <i>BMT Nigel Gee Ltd</i> , Design Engineer |
| 2006 – 2007 | <i>Monitor Offshore Systems Ltd</i> , Graduate Engineer |
| 2004 – 2006 | <i>Collars (Freeland Yacht Spars Ltd)</i> , Machinist |

RÉSUMÉ

I have worked in design, engineering & manufacturing for fifteen years, predominantly in the marine & offshore sectors. My specialisms are 3D modelling & Product Data Management (PDM), 2D draughting and visualisation. I have extensive experience in all areas of the design process from front end concepts through to Design for Manufacture (DFM), detail CAD/CAM design, and Building Information Modelling (BIM).

I have always been focused on integrating newer technologies to improve productivity and make processes more efficient. This has involved 3D modelling using algorithms, 3D walk-through models, and using a BIM based methodology. This has been driven by the need to coordinate large, multidisciplinary projects involving multiple subcontractor companies and extensive parts databases. In addition to working with engineering & fabrication I am routinely involved with producing visuals for clients and subcontractors. This involves a blend of rendering 3D models and post processing images for communication, marketing & sales. I have worked on numerous project of varying sizes, below are some notable examples:-

EXPERIENCE

Micro Gas Turbines for ATEX Explosive environments

Design Engineer for the packaging of Capstone C65 gas turbines for offshore use in potentially explosive environments. I provided the complete design package on this project: Initial concepts layouts, 3D model, CNC files for laser cutting, detail design, manufacture drawings & sales renders.

Wind Farm Vessel Fleet

Design Engineer for the fleet of 18-24m wind farm support vessels designed by BMT Nigel Gee. The fleet currently includes 30 vessels across 8 designs that have been launched and proven in service. Modelled structural modules of these vessels & produced associated drawings, CNC & parts lists. I also produced arrangements for winches, shaft lines & fenders

95m Motor Yacht

Design Engineer on the superyacht Vava II constructed by Devonport Shipyards. Modelled large structural modules of the aluminium superstructure & produced associated drawings, CNC & parts lists. I also provided on-site support to the shipyard during the build

85m Motor Yacht

Design Engineer on the superyacht Aquila (formerly Cakewalk) constructed by Derektor Shipyards. Modelled mechanical systems & produced associated drawings, P&IDs and fabrication models.

Project Gemini

Design Engineer for world's largest aluminium sailing catamaran yacht structure, launched in 2011 by Pendennis Superyachts. I provided on-site support for Pendennis during the final stages of the build where I produced 'As-built' models & drawings.

Stainless Steel Combined Sewer Overflow (CSO) tanks

Design Engineer on several turnkey CSO projects for various water boards. These are large stainless-steel tanks complete with mechanical wastewater screens and water control mechanisms. For example, the 10m stainless steel CSO fabricated off site and then installed underground at Agamemnon Street, Glasgow. I designed & modelled numerous tanks and worked with on-site fabricators.

Unmanned Power Buoy

Graduate Engineer on the CNR Power Buoy built in Dundee for Canadian National Resources (CNR). This was the design and build of a pioneering project – a large steel buoy 10m diameter, 50m tall with 5 decks (4 below the sea surface). The buoy was designed to operate in marginal North Sea oil fields tethered to the seabed in 150m water. It contained six generators (and all associated systems) providing an unmanned, low cost solution to power subsea well pumps.

Yacht Spars

Machinist making some of the worlds' largest wooden yacht spars including the Farlie Restorations refit of the 19m class *Mariquita*, and the 52ft Sparkman & Stephens yawl *Cometa*.

OUT OF WORK INTERESTS

My main interests are water sports, in particular Freediving, paddleboarding & kayaking. I am an active member of Aquacity freediving club in Cornwall.

Drawing & Illustration has always been one of my main interests and something I try to perfect when time allows, but unfortunately it is a lifelong challenge.

I speak Spanish to a mediocre degree, having studied it in evening classes for 8+ years.
