RÉSUMÉ AND CURRICULUM VITAE

PERSONAL DETAILS & QUALIFICATIONS

Name:	Simon Walley
Position:	Owner (Argo Engineering Solutions Ltd.)
Nationality:	British
Education:	BEng (Hons) in Aeronautical Engineering - Loughborough

---

EMPLOYMENT RECORD

2016 - Present	***Argo Engineering Solutions Ltd,*** Owner
2014 – 2016	***Magma Structures Ltd***, Business Development Manager
2005 – 2014	***BMT Nigel Gee Ltd***, Head of Structures
1997 – 2005	***CETEC Ltd***, Principal Engineer
1996 – 1997	***Esso Pipelines Ltd,*** Contract Engineer
1995 – 1996	***Transco,*** Junior Engineer

RÉSUMÉ

I am a Structural Engineer with more than twenty years' experience, specialising in structural design, analysis and working in a special projects environment. I ran the structural engineering department within BMT Nigel Gee for ten years before moving to Magma Structures to help this large composite structures supplier become the country's leading large composite structures company. I started Argo Engineering Solutions Ltd to offer my experience in design and utilisation of lightweight materials, including composites, aluminium and higher grade steels to the wider market.

I have a wealth of experience communicating at all levels from boardroom to the shop floor. I have successfully run focused design teams for many years and have identified some of the significant projects I have held responsibility for in the examples below:-

---

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

Wind Farm Vessel Fleet

Design lead and structural responsibility for the fleet of 18-24m wind farm support vessels designed by BMT Nigel Gee. The fleet included 30 vessels across 8 designs that have been launched and proven in service.

30m Fast Landing Craft

Structural Engineer for proposed 30m 30knot Aluminium Fast Landing Craft for UK Ministry of Defence.

107m Motor Yacht

Structures lead for Oceanco yacht 'Bravo', 107m high-efficiency, low weight super yacht structure in build at oceAnco.

Composite Submarine Rudder Support for MOD

Independent design review and problem resolution consultant to MOD submarines group for T Class and A class submarines. Tasks include review of design calculations, attendance of design reviews, sitting on MOD control surfaces and composite materials sub-groups.

Hoverbarge Design Consultancy

Lead Structural Engineer and Project manager for the structural design of modular and monocoque hoverbarges from 200 – 2500 tonne payload.

Ice Marine BR45 Design Consultancy

General arrangement, weights management and structural design for 60 knot 45 ft tunnel hull, composite power yacht with local yard.

Tidal Turbine Optimisation study (innovate UK)

Innovate UK funded development project to increase the efficiency and reduce the manufacturing cost of large scale tidal turbine blades. A collaborative research project between Argo, Cranfield University and Designcraft (manufacturers).

Black Pearl and Sailing Yacht A

Technical oversight of design and manufacture of the largest carbon fibre / epoxy masts in the world for the largest and second largest sailing yachts ever built. Included analysis, procurement support, build oversight, NDT inspections, load out and installation.

M10-29 Hovercraft

Design Engineer for M10-29 Hovercraft for ABS. Responsibilities included design of primary composite components for this, the first advanced composite hovercraft.

SRN4 Surveys

Lightweight structures consultant for operator looking to purchase and refurbish SRN4 craft currently at Lea-on-Solent.

Project Gemini

Structural Engineer for world's largest aluminium sailing catamaran yacht structure, launched in 2011 by Pendennis Superyachts.

95m Yacht Global Finite Element Analysis

Principal Engineer for 96m yacht global Finite Element analysis to LR Passenger Ship Rules. Yacht was launched at Devonport dockyard in September 2011.

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

Lockheed Martin 24m SLICE crew boat
Structural Engineer for novel hull form fast crew boat to be built in aluminium. Hull structure was designed from first principles and classed by DNV.

Sea fighter 70m 60 knot ONR demonstration catamaran
Structural Engineer and project manager 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.

40m Steel / Composite River Boat
Structural Engineer and Project manager for 40m steel passenger ferry with ENP shipyard for Lisbon with steel hull and HSC compliant composites superstructure.

18m Composite Egg Radome for Kai Tak (Hong Kong)
Design lead and structural responsibility 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.

Bermuda 35m Aluminium Passenger Catamaran
Structural Engineer for 34m fast ferry aluminium structure.

Penguin Ferries 34m Aluminium Passenger Catamaran
Structural Engineer for 34m fast ferry aluminium structure.

Rolls Royce Trent Engine Ground Test Equipment
Project Manager and Structural Engineer for Rolls Royce Trent engine ground test intake and calibration tube design in advanced composites.

Subsea Well Head Protection Structure
Project coordinator for novel sub-sea cage-type GRP protection structure for Shells North Sea Penguin field. Winner of Institute of Petroleum Award 2002.

Boyne Bridge 300m Cable Stayed Mast Pultruded Deck Enclosure
Project Manager and Structural Engineer for new 300m cable stay bridge GRP deck enclosure designed to resist fire for safe evacuation. Winner; Award for Innovation, 7th World Pultrusion Conference.

Portsmouth Tri-Sail 40m Sail Sculpture (adjacent to M275)
Project Manager and Structural Engineer for Fabric sail sculpture as part of Portsmouth City Council regeneration.

OUT OF WORK INTERESTS

My main interests are building and restoring cars, sailing, rugby and kayaking.

In my late twenties I built a replica Porsche 550 race car which I sold in 2014. I am now looking for a classic car to restore over the next few years.

I am a serial boat owner and currently race and cruise with family and friends in the summer months. I helped coach children from the local school in dinghy sailing and have a model racing trimaran that I regularly race at Gosport Model Yacht Club.

I am a member of Fawley Rugby Club and have held coaching positions from September to May. I also help organise summer touch rugby for the junior section.

In 2014 I re-discovered marathon kayaking, a sport that I had enjoyed in my youth. Over Easter of that year I completed the Devizes Westminster 125 mile canoe marathon in 25 hours. Recently, my paddling partner and I have set a new Guinness World Record time for a Tandem Kayak Crossing of Loch Ness, a distance of 21 miles.

TECHNICAL PAPERS

1. **2002 - National Group for Composites in Construction Conference at BRE**
   Novel Use of FRP Composites in Building Construction. Author: Simon Walley

2. **2008 - 20th HISWA Symposium on Yacht Design and Construction, the Netherlands.** *Longitudinal Vs Transverse Framing Systems for Large Yachts*
   Authors : James Roy, Ben Munro, Simon Walley, Alex Meredith-Hardy

3. **2015 - Lightweight Design of Marine Structures (LIMAS), Glasgow**
   Building Big Rigs. Author: Simon Walley
