

ROBERT BURTON
BEng (Hons), AMRINA

NAME: ROBERT BURTON

AGE: 36

HIGHER EDUCATION: University of Newcastle upon Tyne

QUALIFICATIONS: BEng (Hons) Marine Technology & Naval Architecture

PROFESSIONAL BODIES: Associate Member of the Royal Institution of Naval Architects (AMRINA)

PRESENT POSITION: Director / Naval Architect

EMPLOYMENT HISTORY:

05/2019 - Present	Gosport Design Services Ltd Director / Naval Architect
06/2018 - 05/2019	Chartwell Marine Ltd Contract Naval Architect
2014 – 2018	Longitude Consulting Engineers Ltd Consultant Naval Architect
2010 - 2014	BAE Systems Surface Ships Naval Architect
2009 - 2010	BVT Surface Ships Graduate Naval Architect
2007 - 2008	Truflo Marine Ltd Design Engineer

NATIONALITY: British

LANGUAGES: English

SOFTWARE: Rhino, AutoCAD, Microsoft Office, Maxsurf (basic), Solidworks (basic), FORAN (basic), FEMAP (basic), Tribon (basic)

SECURITY STATUS: UK MOD SC Cleared (elapsed 05/2018)

AWARDS: RINA & IMarEST Southern Joint Branch Tom Paradise Award

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05/2019 to Present

Gosport Design Services Ltd
Director / Naval Architect

- 48.8m Aluminium Superyacht frame drawing updates.
- 8.4m Composite Recreational Craft vessel survey & generation of 3D model & construction drawings.
- 14m Landing Craft 2D system schematics, detailed 3D model, penetration drawings & BOM.
- 25m Workboat HS-OSC gap analysis survey & report.
- 14.5m Catamaran detailed systems 3D model & penetration drawings.
- 85ft Explorer Yacht 2D system schematics to yard specification, insulation installation drawing & weight est.
- 22m Hybrid SES CTV Mechanical FMEA including a battery installation and surface effect system. Mechanical commissioning document & driveline overview report.
- 10m Patrol Boat system schematics.
- 14.5m Catamaran renders for media use.
- P2000 as-fit fire detection system captured to schematic for Lloyds Register of Shipping approval.
- 33m Aluminium Ferry schematics for all systems capturing yard requirement.
- 20m Aluminium Ferry schematics for all systems capturing yard requirement.
- 37m Aluminium Ferry Operation & Maintenance manual.
- 22m Workboat Inclining Experiment and report for stability book update, witnessed by surveying body (MECAL).
- 35ft RHIB damage survey, structural assessment to ISO12215-5 requirements and a detailed report of the findings with repair requirement guidance.

06/2018 to 05/2019

Chartwell Marine Ltd
Contract Naval Architect

- Wight Shipyard Company in-yard support generating 3D design and 2D production drawings for all lower deck systems of an aluminium river liner vessel.
- 26m Workboat four engine feasibility study including engine room layout, jet arrangement & report.
- 36m Fireboat fast rescue craft stern ramp recovery system concept design, internal layout of vessel in 3D and associated specification updates.
- Superyacht aluminium auxiliary console from concept design to manufacture.
- 32m Patrol Cutter Tonnage survey & report.
- 23m Workboat aluminium fuel tanks from concept design to manufacture.
- 85ft Explorer Yacht 2D system schematic drawings from vessel specification determining initial weights and centres of pipework and equipment.
- 21m Workboat SCV2 compliance survey & report.

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- 36m Fireboat Li-ion battery space gap analysis. Report considering the DNV GL, MGN 550(M+F) and SOLAS regulations for the requirements of a battery space for a large li-ion battery installation.
- Workboat Code Edition 2 gap analysis report providing comparison to Edition 1.
- 20m Workboat Lightship Survey & report.
- 19m Workboat refit including a 2.4m transom extension, significant superstructure modifications, new engine & jet layout and additional aluminium fuel tanks. Vessel survey, 2D & 3D design, aluminium cut parts, production support and pre-refit Lightship Survey.
- SWATH manufacture progress report. Assessment and report of build progress with respect to the yard schedule.
- 85ft Explorer Yacht 3D model generation of initial vessel structure.
- Barge A-Frame concept design to manufacture.
- 17m Workboat post refit Lightship Survey & report.
- 24m Workboat new build vessel fire and safety plan. Assessment and adjustment of coxswain position to meet vessel sightline requirements.
- 9m Hybrid Pilot Boat Li-ion battery FMEA including vessel survey, HazID & report.

2014 to 2018

Longitude Consulting Engineers Ltd
Consultant Naval Architect

- Mid-life upgrade of a composite, specialised, fast military craft. Including suspension seating arrangement & installation drawings, console modifications, low radar cross-section mast concept design to manufacture, feasibility study into the integration of a remote weapon system, composite repair specifications to Classification Society requirements, equipment integration, system modifications, generation and update of design and production documentation, inclining experiments and stability information book updates.
- Davit installation on a composite training vessel, including removal plans, survey of composite structure, generation of repair specifications, structural design for davit integration, installation documentation including material specification, bill of materials, work instructions, trial plan for customer and Naval Authority Group acceptance.
- Design and implementation of a Fast Rescue Boat davit installation for a fleet of military support ships, including davit selection, operating procedures, safety assessment, structural survey, installation design and class approval.
- Assessment and development of commercial ship mooring arrangements to meet regulations, including the analysis of mooring loads and the design of mooring equipment.
- Detailed design, structures, stability and engineering of high speed vessels; including military craft.
- Structural and arrangement surveys.
- SOLAS trials and acceptance.

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- Assisted in sea trials of a bespoke military docking system to allow the inter-operability of ships and small craft.
- Assisted in sea trials of a mooring and fender system to allow a dedicated commercial ship to dock alongside submarines at sea.
- Small craft regulation & classification knowledge.

2012 - 2014

BAE Systems Surface Ships
Small Boat Centre of Excellence
Naval Architect

- Design modernisation and manufacture of three composite fast military craft to classification society requirements including design specification update & modernisation, design documentation, material specifications, manufacturing support lead, trials plan, class approval, liaison to class surveyor and customer for craft acceptance.
- Design, documentation and manufacture of a composite panel for a lifting application including destructive testing enabling implementation.
- Pacific 24 MK IV RHIB design review, development, specification & documentation updates, manufacturing support, class approval, liaison to class surveyor, trial plans, SOLAS trials and customer acceptance.
- Engineering support for a specialised, fast, lightweight, small military craft including sea trials & customer acceptance.
- Composite damage inspection and generation of repair specifications including material definition and fully defined work instructions.
- New build design and production support, class liaison for acceptance, refit support, equipment integration, stability assessments & sea and acceptance trials.

2010 - 2012

BAE Systems Surface Ships
Naval Architect

- Design and production of complex ship systems including for HMS Queen Elizabeth.
- Numerous basin and sea trials to commission or independently assess systems.
- Assisted in HMS Ark Royal inclining experiment.
- Project management, design, production liaison, trials and customer interface.
- CBRN ship system design and trials for acceptance.

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2009 - 2010

BVT Surface Fleet
Graduate Naval Architect

- Management and leadership training as part of an accredited graduate training scheme.
- Through life cost analysis on the implications of 'Design for Build' vs 'Design for Support' of a complex naval platform.
- Utilising an existing technology for a new application in an investigation and report into the viability of a live Integrated Vehicle Health Management (IVHM) system.

2007 – 2008

Truflo Marine Ltd
Design Engineer

- Assisted in the design, modification and manufacturing support of high integrity submarine valves.
- Creation of an online technical training manual for valves.