SOLIS
MARINE ENGINEERING

CURRICULUM VITAE

OLIVER SHORT MENG, AMRINA
NAVAL ARCHITECT

University of Southampton, Master of Engineering (Hons) Ship Science 2015
Associate Member of Royal Institution of Naval Architects 2015

o.short@solis-marine.com M +44 (0)7778 050142

Oliver is a Naval Architect at Solis Marine Engineering Ltd, the engineering division of Solis Marine group providing engineering, design and analysis services to the offshore, shipping and renewables industries. His work includes power and propulsion, concept design, engineering design, and project management.

Since graduating from Ship Science (Yacht and Small Craft) at Southampton University Oliver joined Frazer-Nash Consultancy and worked on a range of tasks from pre-concept assessments to vessel trials, conversion, refit and ship life extension projects. Oliver's focus has been High speed craft design where he has worked as a High-Speed Naval Architect at the Naval Design Partnering (NDP). Through his time at the NDP he developed in house tools for rapid design and costing alongside pre concept designs to inform tender assessment and requirement generation. Oliver has also worked on site with the Tide-class tanker team undertaking the UK customisation at A&P Falmouth and has worked as a requirement engineer for the T31 Arrowhead 140 build specification.

FRAZER-NASH CONSULTANCY

- T31 BUILD SPECIFICATION

  Requirements engineer for the Arrowhead 140 build specification as part of the T31 competitive design phase.
- HIGH SPEED CRAFT REMOVABLE BOW

  Feasibility study on a removable bow alongside BMT Nigel G investigating loading pressure, structural loads and failure analysis.
- HIGH SPEED CRAFT COST MODELLING

  Development of a high-speed craft cost model to integrate with rapid design tools allowing assessment of additional requirement costs at the concept stage.
- FAST PATROL CRAFT (FPC) PRE-CONCEPT ASSESSMENT

  The FPC project's aim was to understand implications of interoperability constraints on objective and threshold requirements. The use of concept designs allowed the requirements to be tested and results were presented back to the end user. This enabled an inform decision into the procurement opportunities moving forward.
- NDP HIGH SPEED CRAFT DESIGN TOOL (HISCAT)

  HiSCAT was developed in 2012 to rapidly generate concept design. This task development its capability focusing on the addition of a vessel forward acceleration prediction capability bases on engine torque and propeller cavitation limits. Alongside these more general improvements were implemented to improve user friendliness and changes to user feedback.
- UKCCATS PROJECT MANAGER

  Project manager for UK Customisation and Assessment Trials (UKCCATS) for Tide-class tankers focusing on MoD tasking and liaising with A&P to ensure timely project completion.
- T23 HAZARD LOG RATIONALISATION

  Hazard log review and rationalisation for T23 Frigate alongside platform desk officers. Updated format focussed on enhanced understanding of mitigations and safeguards.
- T23 STABILITY REVIEW

  Review of growth margins of T23 to investigate prediction methods for life extension. Part of a wider SALUS task to improve the safety of the Royal Navy.

NAVAL ARCHITECT, OLESINSKI SUPERYACHT DESIGN

- SEA TRIAL DATA

  Analysis of sea trial data to understand how new build yachts compared to theoretical performance predictions.

- SURFACE MODELLING
  3D appendage modelling for CFD analysis.

NAVAL ARCHITECT, SEA SPEED MARINE CONSULTANTS

- DYNAMIC POSITIONING SYSTEM
  Early stage design for a forward-thinking dynamic positioning system to be used on wind farm support vessels. Developed within Matlab®, inputs established required thrust from external influences including surface drift, tidal flow, wind speed and direction.
- TANK TESTING
  Calm water resistance tests at the QinetiQ Haslar Tank to optimise trim and power.

EMPLOYMENT HISTORY

2019 to Present	Solis Marine Engineering Ltd Naval Architect
2017 to 2019	Frazer-Nash Consultancy Senior Engineer
2015 to 2017	Frazer-Nash Consultancy Engineer
June - July 2014	Olesinski Superyacht Design Naval Architect
July – Aug 2014	Sea Speed Marine Consultants Naval Architect