

SYAFIQAH BINTI SHAFIQ LEE, MENG
NAVAL ARCHITECT

Newcastle University, Master of Engineering (Hons) Offshore Engineering 2016

Associate Member of Institution of Marine Engineering, Science & Technology 2019

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Syafiqah has recently join Solis Marine Engineering Ltd as a Naval Architect, in the engineering division of Solis Marine group providing engineering, design and analysis services to the offshore, shipping and renewables industries.

Prior to this, Syafiqah was a Graduate Naval Architect at KBR Inc, where she worked on a range of projects including, detailed design of offshore gas platforms in the Caspian Sea, a feasibility study of Singapore's LNG jetty, and developing the design of offshore renewable facilities. Throughout her role, she used numerous marine related commercial software, and honed her analysis skills such as mooring, motion and stability analysis. Syafiqah also has gained experienced as a Research Associate at Newcastle University where she worked on a project that investigated the effect of wind and tide on fuel consumption. As a researcher, Syafiqah did analysis and simulations of data using Minitab software as well as producing progress reports and presentations.

Upon graduating from Newcastle University with an MEng in Offshore Engineering, Syafiqah has subsequently gain 2 years of cumulative experienced in various roles and industries. This experience has improved both her soft and hard skills. Prior to her master's degree she also gained experience working onboard a container ship as an Engine Cadet doing various duty as a seafarer. Syafiqah also holds a Diploma in Marine Engineering from UniKL MIMET, Malaysia, where she has learned to use workshop tools and machines such as welding and lathes.

Syafiqah's hopes to add a unique perspective to tasks whilst developing the key skills required for the maritime and renewables sector and pushing the industry forward.



GRADUATE NAVAL ARCHITECT, KBR INC

- UMID 2 - DRILLING & QUARTERS PLATFORMS

Detailed design of three platforms for gas production in the Caspian Sea where 2 will be installed using the launch method and 1 will be installed using the lifting method. Various analysis and studies conducted to ensure designed platforms are feasible for construction, installation and commissioning.

- FEASIBILITY STUDY OF LNG JETTY IN SINGAPORE

The aim of this study is to improve berthing capability of an existing LNG jetty. To able to cater the berthing of LNG carriers as big as 80,000 m³ to as small as 1,500 m³. The study includes reviewing the impact and limitation of operations at the studied jetty, feasibility modifications operations, related costs, possible disruption to current operations, and mooring and berthing simulation.

- DEVELOPING BARBOX DESIGN

A new simple design initiative to cater to the future of the renewable industry. Developing an orthogonal shape floating or fixed structure design that can be used as a renewable facility such as HVDC or HVAC.

RESEARCH ASSOCIATE, NEWCASTLE UNIVERSITY

- INVESTIGATION INTO EFFECT OF WIND AND TIDE ON FUEL CONSUMPTION

The aim of the research project was to produce a regression model predicting fuel consumption on ferries using the environmental conditions in West Scotland. The results would allow ship operators to have efficient ferries complying with the EU and IMO regulations for harmful gas emissions and greenhouse effect. The project was funded by the Engineering and Physical Sciences Research Council (EPSRC).

TECHNICAL EXECUTIVE, FAST FLOW SDN BHD, MALAYSIA

- Fast Flow provides solutions for rainwater management in building projects across Asia Pacific. The company designs drainage systems for buildings, optimizing material use and achieving architectural and engineering requirements.

ENVIRONMENTAL ASSISTANT ENGINEER, G ENERGY (M), SDN BHD, MALAYSIA

- G Energy is an energy consultancy offering a range of energy services ensuring that sustainable solutions are feasible and suitable to buildings' needs.

ENGINE CADET, HUB SHIPPING SDN BHD, MALAYSIA

- Performing daily duty in the engine room to ensure smooth journey of the vessel to designated destination.

EMPLOYMENT HISTORY

2020 to Present	Solis Marine Engineering Ltd Naval Architect
2019 to 2020	KBR Inc. Graduate Naval Architect
Jan – May 2019	Newcastle University Research Associate
Jan – July 2018	Fast Flow SDN BHD, Malaysia Technical Executive
Jan – Dec 2017	G Energy (M) SDN BHD, Malaysia Environmental Assistant Engineer
July 2013	Hub Shipping SDN BHD, Malaysia Engine Cadet