

Silvia Dorigo

Naval Architect

Education: Institute of Naval Architecture, Faculty of Trieste
M.Sc. Naval Architect and Marine Engineer

Company: Sea Green Engineering Srl

Present position: Co-founder

Place of work: Trieste, Italy

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PROFESSIONAL EXPERIENCE

2020 – Present **Sea Green Engineering Srl, Trieste (TS) - Italy**
Co-founder of Sea Green Engineering, a brand-new innovative ship design company based in Trieste (Italy).

2002-2020 **Navalprogetti Srl, Trieste (TS) – Italy**
Naval Architect and Marine Engineer specialized in the following main areas: feasibility and conceptual design, basic design, intact and damage stability analyses, structural analyses, transportation of offshore structures studies, DP capability analysis.

SOFTWARE

Hull Lines: Aveva Marine LINES

Seakeeping: Ultramarine MOSES

2D CAD: Autodesk AUTOCAD

3D CAD: Autodesk INVENTOR

Stability: Creative Systems GHS

Power prediction: Hydrocomp NAVCAD

FEM Analysis: ANSYS, SESAM

Reporting: Microsoft Office

LANGUAGES

Italian
English
French

PROJECTS

at SEA GREEN
ENGINEERING srl

2025

Bulk Carrier

Rigid wing integration design, structural and stability analysis,
Class assistance

Bulk Carrier

Methanol and Ammonia Fuel Cell integration design

Cruise ship

Mooring equipment foundation design, local structural checks

Ultra shallow water multi purpose barge

Basic design, stability, grounding analysis

Cassiopea project

Operativity analysis

Cable laying vessel

Safety plans

Laura Bassi (OGS)

Lifeboats upgrade

2023

Trenching barge

Concept design

Laura Bassi (OGS)

New Baltic room and wet lab design, scantling, systems,
technical spec

Patrol vessel

Weight optimization

2022

ACTV fleet

Systems upgrading

FARAD - Electric water bus

Feasibility study, power prediction

HSC 400 pax

Feasibility study with alternative energy solutions

Foldable platform for LNG bunker station

Detailed design

2021

Zero JIP

Joint Industry Project – Building the engine room of the future

at NAVALPROGETTI srl

2020

Absheron EPS project (Saipem)

Grillage and seafastening detailed design, stability check during
transportation

Baltim Project (Saipem)

Grillage and seafastening detailed design

2019

CLV Prysmian

Basic design assessment

at NAVALPROGETTI

Srl

2018

2017

2016

2015

2014

2013

2012

2011

2002-2010

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8000 DWT Tanker Lengthening

Lengthening feasibility study

CSL Arcadian

Detailed mooring plan

Gasvessel H2020 – Compressed Natural Gas Carrier

Basic design, structures, systems diagram, stability analysis, HAZID, detailed hydroforming mould design

60t BP Ice Class Tug (Cantiere Navale Vittoria)

Stability analysis, inclining test

LQB Verdi/LQB Bellini (Wagenborg)

Strength Analysis

W102 (Wagenborg):

Helideck detailed design

JSD 6000 Derric Pipelay Vessel (Petrofac):

A&R system foundation detail design

WAB 190 POB (Rosetti):

Concept design for tender

Ersai 400:

Stability/strength analysis

PLBH Pipe Lay Barge ISRAFIL HUSEYNOV (Saipem):

Basic & detailed upgrading design, stability studies

CNG Cargo containment system (CNGV):

ABS approval in principle

Castoro 6 (Saipem):

CMI gantry crane upgrading

DBA Derrick Barge Azerbaijan (Saipem):

Basic & detailed upgrading design; DP capability assessment

Overdrill ultra deep-water drillship (Fincantieri):

DP capability assessment, general design assessment

Ersai-1 conversion – semisubmersible heavy lift barge

Global FEM analysis, Stability check

DBA Derrick Barge Azerbaijan (Saipem):

DP conversion - feasibility study

Ice class barge (Agip KCO):

basic design - stability

PLV CastorOne (Saipem):

JLT hull interface – FEM analysis

MOSE Jack-up:

design improvement, new compartmentation, new hull forms, trim and stability analysis

Car carrier 4000 cars (Ray shipping):

stability analysis, strength analysis, freeboard plan, BW management plan

IBEE vessel (Agip KCO):

draft increasing feasibility study; stability analysis

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Ice classed oil spill barge (Agip KCO):

main scantling calculation and plans, stability analysis, resistance prediction

PLCV 4000 (Saipem):

stability calculation, escape plans and calculation

Very shallow water pontoon (Sonsub):

Lightship weight estimation, stability and strength analysis, FEM analysis

Launching barge S45 (Saipem):

evaluation of steel modification necessary to comply with stability & longitudinal strength requirements during transportation of a 25000t topside

Ice classed Campaign & Maintenance vessel (Agip KCO):

propulsion Investigation, stability analysis, compartmentation

Substructure for Rig Sunkar (Agip KCO):

Grounding and floating stability, installation phases, strength analysis, safety analysis and failure mode and effect analysis, operation manual

Ice classed 50 TBP tug (Agip KCO):

Lines plan, stability analysis, propulsion investigation

Ice classed tug utility vessel (Agip KCO):

Lines plan, stability and strength analysis, scantling

Launching barge STB1 (Saipem):

Ballast arrangement for jacket launching, ballast calculation during topsides floatover, floatover mooring system design

FPSO (Tecnomare):

Lines plan, stability analysis