ALESSIO PRESTILEO

Address:	23C Oslo gate, 0192 Oslo, Norway
Phone:	+47 954 10 926
E-mail:	alessioprestileo@gmail.com
LinkedIn:	https://no.linkedin.com/in/alessioprestileoalep
Date of birth:	1986-07-20
Nationality:	Italy

Professional Summary

- Experienced structural engineer (4 years' experience) with Master's Degree in Naval Architecture and Marine Engineering.
- Awarded prize for best Master's Degree thesis, article published on "Marine Structures".
- Specialized in Finite Element Analysis and 3D modelling.
- Good programming skills.
- Hard worker: extremely tenacious, proactive and straightforward. Highly professional with strong integrity.
- Experienced project manager for middle-sized projects (20,000 to 40,000 $).

Skills

- Excellent analytical skills and strong problem-solving attitude.
- Solid knowledge of structural design principles, criteria and methods. Specialized in steel structures for marine applications.
- Significant experience with engineering standards.
- Expert user of FE software: Abaqus CAE, CATIA, Patran, Sesam/Genie.
- Solid knowledge of Python, Java and C++ (Qt framework).
- Good knowledge of JavaScript (Angular 2 framework), basic knowledge of C, Matlab, Visual Basic, Fortran and LISP.
- Significant experience with GUI programming using FOX Toolkit.
- Excellent language skills: Proficient in English, Norwegian, Spanish, Portuguese. Native Italian speaker. Basic knowledge of French.
- Comfortable working in team as well as individually. Eager to learn and interested in a very wide range of topics: Technology, math, science, literature, art, languages, sport.
- Good at teaching and explaining concepts.

Experience

Programming studies — *Dec 2015 - Present time*
Independent activity
Oslo, Norway

Study:

- Fundamental principles of programming
  - MIT course: "Structure and Interpretation of Computer Programs"
  - Book: "Design Patterns: Elements of Reusable Object-Oriented Software"

- C and C++ fundamentals, plus advanced use of pointers, templates and polymorphism
  - Books: "The C book", "The C Programming Language"
  - Books: "The C++ Programming Language", "Jumping into C++"
- Java course developed by Oracle: "Java SE 8 Fundamentals"
- OpenGL and 3D graphic
  - Books: "OpenGL Superbible", "OpenGL Programming Guide"

Practice:

- Created a simple 3D modelling software using C++ (Qt framework) and OpenGL
- Created a simple web application using Angular 2, https://github.com/alessioprestileo/Warehouse

---

Structural Engineer (4 years) *Sep 2011 - Nov 2015*

Det Norske Veritas / DNVGL
Oslo, Norway

Main activity:

- Strength assessment of marine structures made of steel, aluminum and composite materials, including: ULS (Ultimate Limit State), ALS (Accidental Limit State) and FLS (Fatigue Limit State).
  - Specialist topics such as buckling analysis of stiffened plates, collision strength of offshore platforms, ship grounding and collision analysis, dropped objects analysis for topside structures, simplified and fully-stochastic fatigue assessment of structural details.
  - Polar Rules and Ice strengthening for ships.
  - Rule-based projects, addressing ship-shaped FPSO units, Bulk Carriers, Tankers, Gas carriers, Free Fall Lifeboats, Cranes and other lifting equipment. Extensive use of DNV rules, standards and recommended practices, NORSOK, Eurocode 3 and API SPEC 8C.
- Programming new functionalities for engineering software. Scripting to streamline and automatize daily tasks.
  - Scripting (Python and VBA) in order to handle creation and post-processing of big FE models (featuring several million nodes, contact interactions, couplings, customized material behavior etc.).
  - GUI programming (FOX Toolkit and Python) and algorithm programming in order to add new functionalities to the software Abaqus CAE and optimize model creation and post-processing.
  - Programming of algorithms to effectively convert input files between different FE software and organize big models.
- Project manager for middle-sized projects (20,000 to 40,000 $), responsible all of the project phases, from tendering to invoicing.
- Mentoring of master's students.
  - Supervisor of Master's Theses concerning the ship-iceberg interaction, involving advanced FE analyses and programming of an advanced material behavior model for ice (Fortran).

Education

Master of Science: *Naval Architecture and Marine Engineering* — *Mar 2011*
University of Genova
Italy

Bachelor of Science: *Naval Architecture and Marine Engineering* — *Oct 2008*
University of Genova
Italy

Languages

- Italian: Native
- Norwegian: Fluent
- English: Fluent
- Portuguese: Fluent
- Spanish: Fluent
- French: Basic

Awards

RINA d'Amico Award 2011 for the best Master's Thesis in Naval Architecture and Marine Engineering in the University of Genova, Italy.

Publications

"Bottom damage scenarios for the hull girder structural assessment".
Published on "Marine Structures", Vol.33 (October 2013).