

ALESSIO PRESTILEO

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Profile

- Strong focus on Angular2, ReactiveX, jQuery, Bootstrap.
- Good competence on Angular2 forms with validation and autocomplete.
- Significant experience with Python for engineering applications.
- Good understanding of the principles of software design and software development.
- Experienced structural engineer (4 years), shifted career towards web development.
- Experienced project manager for middle-sized projects (20k-40k \$).
- Hardworking and extremely tenacious. Highly professional with strong integrity.

Skills

- Solid knowledge of the Angular2 framework, integrated with ReactiveX, jQuery and Bootstrap.
- Good competence on forms with validation and autocomplete (Twitter Typeahead).
- Experience using the Qt framework and C++ in general.
- Good knowledge of 3D graphics fundamentals with OpenGL.
- Experience in Python and Java. Basic knowledge of Matlab, Visual Basic, Fortran, LISP.
- Excellent language skills: Proficient in English. Spanish, Portuguese, Norwegian. Native Italian speaker.
- Comfortable working in team as well as individually.

Experience

Angular2 developer (non-paid)
Turning Data Into Products AS
Oslo, Norway

Jul 2016 – nå

- Contributing to the product [Quantifio](#) by developing a tool for creating and sharing statistical sets and charts (library [Charts.js](#)) online.

Independent study
Oslo, Norway

Dec 2015 – nå

- Studied in detail the Angular2 framework and created applications that make use of Angular2, Bootstrap, ReactiveX and jQuery. Experience with Twitter Typeahead and Bloodhound for autocomplete-functionality in forms.
 - Book: "[ng-Book 2](#)"
 - Applications: Go to [my GitHub page](#).
- Course about Code Optimization for JavaScript. Course about D3.js.
- Studied fundamentals of 3D graphics in OpenGL and created a simple 3D-modelling software using OpenGL and Qt.

- Books: "OpenGL Superbible", "OpenGL Programming Guide"
- Java course developed by Oracle: ["Java SE 8 Fundamentals"](#).
- Studied C and C++ in depth, with advanced use of pointers, templates and polymorphism.
 - Books: "The C book", "The C Programming Language".
 - Books: "The C++ Programming Language", "Jumping Into C++".
- Studied fundamental principles of software development and design patterns.
 - MIT course: "Structure and Interpretation of Computer Programs".
 - Book: "Design Patterns: Elements of Reusable Object-Oriented Software".

Structural Engineer (4 years)
Det Norske Veritas / DNVGL
Oslo, Norway

Sep 2011 – Nov 2015

Main activity:

- Advanced analyses (non-linear FE analysis) of marine structures made of steel, aluminum and composite materials.
- Development of customized functions for engineering applications. Automation of repetitive tasks.
 - Scripting (Python and VBA) to handle creation and post-processing of big FE models.
 - GUI-programming (FOX Toolkit and Python) design of algorithms to be integrated in the software Abaqus CAE.
 - Design and implementation of algorithms to effectively convert input files between different FE software and to organize big FE models.
- Project manager for middle-sized projects (20k-40k \$), involved in all the phases of the project, from tendering to invoicing.

Education

Master's degree: Naval Architecture and Marine Engineering
University of Genova, Italy

Mar 2011

Bachelor's degree: Naval Architecture and Marine Engineering
University of Genova, Italy

Oct 2008

Language skills

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| • Italian: Native | • Portuguese: Proficient |
| • English: Proficient | • Norwegian: Proficient |
| • Spanish: Proficient | |

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 \(October 2013\)](#).