

PERSONAL INFORMATION



Stefano Vanin

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📅 Date of birth 1995.06.03 | 🇮🇹 Nationality Italian

PROFESSIONAL EXPERIENCE

Wärtsilä Italia S.p.A.

2020.09 – present
San Dorligo della Valle
(Trieste, Italy)

Manufacturing Systems Software Developer

Concept development of collaborative robotics applications in our manufactory plant including:

- Technoeconomical feasibility;
- Design of processes and layout;
- Programming of the process on the cobot, related servers and user interface;
- Integration with currently used manufacturing software;
- Programming of safety measures and related requirements;
- Design of end effectors and supports;
- Design and wiring of actuators and automation.

Development of an anti-collision system for an AGV in Wärtsilä DCT based on a 3D camera.

Wärtsilä Italia S.p.A.

2019.08 – 2020.07
San Dorligo della Valle
(Trieste, Italy)

Marine Engineering Trainee

Development and application of data driven methods for the concept development of vessels' engine rooms. Design of engine room arrangements focused on 2 and 4-strokes marine engines, gearboxes, power transformers, shaft generators, fuel cells and energy storage systems.

Preparation of appealing value propositions of the solution, tailored on the most important indicators for the specific customer such as carbon/ghg emission, fuel consumption, OpEx and CapEx.

Relevant projects:

1. Studies about merchant and passenger vessels (business cases);
2. Collaboration in METRO project (business case);
3. Solar panels simulation (algorithm);
4. Port and Anchorage Identification (algorithm);

STUDIES

Master Degree

Mechanical Engineering

LM-33

Energy and environmental sustainability

Università degli Studi di Trieste
2017.09 – 2020.04

Thesis: "Data driven design of low emission machinery configurations for bulk carriers compliant with IMO 2050 Strategy"

Relator: Prof. Rodolfo Taccani, Fluid Machines, Università degli Studi di Trieste

Correlator: Andrea Zotti, Marine Engineering Director, Wärtsilä Italia S.p.A.

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Bachelor Degree

Industrial Engineering

L-9

Mechanics

Università degli Studi di Trieste
2014.09 – 2017.10

Thesis: "Potenziamento umano tramite muscoli artificiali pneumatici"

English translation: "Human augmentation using Pneumatic Artificial Muscles (PAM)"

Relator: Prof. Sabrina Priol, Chemical Engineering, Università degli Studi di Trieste

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High School Liceo Scientifico

Liceo Scientifico Galileo Galilei
San Donà di Piave (Venice, Italy)
2014.06

Thesis: "Approfondimento sui fenomeni che interessano una moto da corsa durante un giro di pista"

English translation: "Analysis of the phenomena to which a motorbike is subjected during a racing lap"

85/100

OTHER WORKING EXPERIENCES

Beach services CO.GE.AR.

Summers from 2012 to 2016
Jesolo (Venice, Italy)

Welcome customers and maintenance of the beach facilities.

Assembly of doors and windows
Tagliapietra Serramenti
2011.06 – 2011.08
Jesolo (Venice, Italy)

Quality control of the entering materials, reorder of the warehouse, assembly of simple components, supporting colleagues during on-site assemblies.

SKILLS

Technical skills from education

The main topic of my University studies is that of sizing energy conversion plant; in particular, the main technologies considered were steam and turbogas turbines, reciprocating internal combustion engines and heat recovery. Considerable attention was addressed to renewable energy sources and their specific implementations and requirements (ORC, storage systems).

Technical skills from working experiences

The typical task during my trainee was that of fetching historic data from vessels in order to find patterns in routes and operations so that it was possible to design the best engine room arrangement and run the simulations against the current configuration and competitor ones. During this year I could improve my knowledge on the energy conversion on board of vessels and in particular I had the opportunity to gain a good knowledge of Wärtsilä portfolio.

In the successive scholarship I could dig deeper into the knowledge of Wärtsilä products by seeing some of the mechanical processes behind various components.

Programming python 3, java, git (bitbucket, gitlab, github, lfs), databases (Oracle, PostgreSQL, MongoDB, SQLite), UDP and TCP/IP, REST API.

System integration KUKA Sunrise environment, Beckhoff EtherCAT, MQTT, PLC programming (FBD and LAD), Siemens TIA Portal, safety standards. Wiring of PLC based systems (digital IOs, power supply, relays, electrovalves, DC motors).

Mechanical design Siemens NX

Soft skills

I am creative and curious, I like to learn new things and I appreciate being in a technologically driven context where expanding the knowledge is a shared target, therefore I am happy to work in a stimulating team where I am keen to listen and share my opinions.

I enjoy relating with colleagues and customers in a friendly manner, and at the same time I am improving on negotiation and conveying messages.

I am optimistic but at the same time realistic, recognizing where there is a limit and committing to reach it.

I love sport, in particular basketball and racing. I would say that playing basketball during high school has contributed to make me an hard worker who strives to achieve results.

Languages Mother tongue Italian, fluent English

Driving licenses A2, B.

INFORMATION PRIVACY

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