Nicola Fontana

Curriculum Vitae

"A quiet sea never made good sailors"

Education

2014–2016	**Masters Degree**, *Tecnical University of Munich*, Applied and Engineering Physics. Final Note 1.4.
2009–2013	**Bachelor Degree**, *Universitá degli studi di Trieste*, Physics. Final Note 94/110.
2003–2008	**Secondary Schooling Degree**, *Liceo Scientifico Polo Val Boite (Cortina D'Ampezzo)*, Scientific secondary school. Final Note 89/100.

Masters Thesis

Title	*Fluid Structure Interaction: Benchmarking and non Newtonian Fluids Simulations.*
Supervisors	Prof. Martin Zacharias & Prof. Boris Vexler.
Description	The goal of the thesis was to develop a robust code to simulate Fluid-Structure-Interaction problems. The developed code was tested on a well known benchmark to ensure correctness and robustness. As second step I modified the code to simulate non-newtonian fluid flows and investigated the numerical challenges posed by this type of simulations.

Bachelor Thesis

Title	*Examples of efficiency measurements with the "Tag and Probe" method.*
Supervisors	Prof. Giuseppe Della Ricca & Dr. Andrea Schizzi.
Description	In the thesis I tested the "Tag and Probe" method as particle selection algorithm in high energy accelerators. In the specific case the accelerator was the LHC at Cern in Geneva.

Experience

Present **Senior Test and Development Engineer**, *in-tech GmbH*, Ingolstadt.
Developement of framework tools for test automations, test and development in different projects. Consultant for project management on the evaluation of possible new Projects.

2017–2019 **Junior Test and Development Engineer, Team Coordinator Ethernet Testing**, *in-tech GmbH*, Ingolstadt.
Coordination of the Ethernet Testing team, test and development of test automations for automotive ECUs over different BUS systems (Ethernet BroadR-Reach, FlexRay, CAN, CAN-FD, 1000-BASE). Specific focus on the framework development to create tools to improve the level of automation of the tests.

2010–2011 **Professional Athlete: Alpine Skiing**, *Ski Club: Unione Sportiva Val Padola*.
Training and racing around the world, during summer season one month training camp in Saas Fee and Zermatt (Switzerland), before ski season start one month training camp in Nakiska and Norquay (Alberta,Canada), during ski season races in Italy, Austria and Canada.

Awards

2009 Italian Alpine Ski Title in Giant Slalom at the Italian Citizens Championships.

Certificates

2019 CTAL Certified Tester Advanced Level Test Manager.

2018 Audi prototype drivers license.

2018 CTFL Certified Tester Foundation Level.

2016 Attended *deal.ii users and developers* training at ICTP in Trieste (18-25/03/2016).

2016 Attended *International Symposium and Winter School FSI 2016* at RICAM in Linz (11-15/01/2016).

2013 TOEFL IBT.

Programming Languages and Software Skills

Basic PYTHON, HTML, CSS, JavaScript, ASPNetCore.

Intermediate C, C++, Fortran, LaTeX, Microsoft Office, EXAM, ControlDesk, SVN, JIRA, Bitbucket, KPM.

Advanced C#, Linux, Microsoft Windows, Mac OS, Git, CANoe, CAPL, Visual Studio, Visual Studio Code, VTestStudio, ODIS.

Communication Skills

2016 Oral Presentation at Technical University of Munich of my master thesis.

2016 Oral Presentation of master thesis results at Confernece on *Simulation and Optimization of Extreme Fluids* in Heidelberg.

2016 Oral Presentation of master thesis results at *International Symposium and Winter School FSI 2016* at RICAM in Linz.

2015	Oral Presentation at Technical University of Munich of my Proseminar on *Dynamics of Sand Dunes Formation* at the Physics department.
2013	Oral Presentation at Universitá degli studi di Trieste of my bachelor thesis.

Languages

Italian	Mothertongue	
German	Fluent	
English	Fluent	
Swedish	Basic	*A1 Certificate*

Interests

- Skiing: Professional skier until 2009	- Formula-1
- Soccer: Former forward player	- Tennis
- Running	- Roadbike
- Photography	- Reading