



ENGINEER

# Matteo Zaupa

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## ADDRESS

Consorzio RFX  
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## WORK

Present  
May 2018

**Researcher - Engineer**  
*Consorzio RFX*

- Deputy Manager of PRIMA Cooling Plant able to remove up to 70 MW of thermal power using ultrapure water.
- Engineering support for the procurement contract of the MITICA Beam Line Components.
- Thermal-hydraulic engineer in support of the European nuclear fusion power plant DEMO.
- Engineering support for a research project aimed to investigate corrosion phenomena in actively cooled nuclear fusion components.

May 2018  
May 2016

**Postdoctoral researcher**  
*Università degli Studi di Padova*

- Engineering support to the design and construction of a 70 MW<sup>th</sup> Cooling Plant: thermo-hydraulic sizing of components, definition of nominal parameters, review of drawings and documentation, definition of the required control logics, definition of operative procedures.
- Technical support to the 3D CAD integration between the Cooling Plant, the actively cooled experiments and the buildings.
- Mechanical and fatigue finite element analyses of nuclear components by using the non-linear iterative process of the ANSYS code.



## EDUCATION

Apr 2016  
Jan 2013

**PhD Candidate - Fusion science and engineering**  
*Università degli studi di Padova, Instituto Superior Técnico Lisboa*

- Development of a customized finite element code simulating subcooled boiling condition during transient events applied to integrated 1D-3D models of actively cooled nuclear components.
- Steady state and transient thermal hydraulic analyses by using 1D or 3D software to simulate hydraulic plant or single components.

Oct 2012  
Nov 2010

**Master's degree in Energy Engineering**  
*Università degli studi di Padova*

Nov 2010  
Oct 2007

**Bachelor's degree in Energy Engineering**  
*Università degli studi di Padova*

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