NICOLA CASARI

PERSONAL INFORMATION

Born in Legnago (VR), Italy , 13 Dec 1991

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EDUCATION

2015–Present	**ENGINEERING DEPARTMENT, FERRARA**
PhD	PhD Student in the turbomachinery and energy system group. Research topic *"Fouling in gas turbines"*. The research aim is to develop a physical model which rules the deposition of particles on a gas turbine blades. This model should therefore be implemented in a CFD code in order to account for the whole engine degradation due to fouling phenomena. The research work is both experimental and numeric.
Supervisor	Prof. Michele Pinelli

2013-2015	Università degli studi di Ferrara, Ferrara, Italy
Master Degree	*Ingegneria Meccaninca (Mechanical Engineering)*

· *Final Grade:* 110/110 cum laude.
· Description: The Master degree has provided me with the theory and methodological tools needed to design and develop turbomachinery, both from the standpoint of fluid dynamics and of structural resistance. During this degree I achieved advanced knowledge on the different topics characterizing the fields of mechanics of material, vibrations and gear design, heat exchange and fluid dynamics. Furthermore advanced statistics and probability subjects have been studied.

· *Thesis: Modeling of fouling in gas turbines*
This thesis, in collaboration with the Imperial College of London (departments of mechanical and aeronautical engineering), led me to develop and implement in a CFD code a first physical model for the particles deposition on turbine blades. It also offered me an opportunity to work and interact with an heterogeneous working group.

2015	Imperial College, London
Erasmus+ Traineeship	Period of 5 months during which I wrote my master thesis and a paper for ASME Turboexpo 2016.

2009-2013	Università degli studi di Ferrara, Ferrara, Italy
Bachelor Degree	*Ingegneria Meccanica(Mechanical Engineering)* · Description: This degree provided me with the mathematics, physics, mechanics basics.

Secondary School Diploma	*2004-2009*	Liceo scientifico, Piano Nazionale Informatica (PNI), Bondeno (FE), Italy

PUBLICATIONS

	Nov 2015	An Energy Based Fouling model for gas turbines: EBFOG
ASME - TurboExpo 2016		Submitted on Nov 2015, accepted for publication and presentation, labelled as *journal quality*. Will be personally held in Seoul - Jun 2016

COMPUTER SKILLS

Programming Languages	C/C++, PYTHON, FORTRAN.
OS	MICROSOFT WINDOWS, LINUX.
OpenFOAM	Open-source CFD tool: ESI certificate of advanced course
MATLAB	High-level technical computing interactive environment for algorithm development, data analysis and numerical calculations. Core instrument widely used during the master degree.
LATEX	High-quality typesetting system for texts, slides and vector graphics.

OTHER INFORMATION

Languages	ENGLISH · Upper Intermediate - fluently speaking, well articulated writing. Taking advanced course for Cambridge ESOL certification (C1)
	ITALIAN · Mother tongue.
Communication Skills	My study period abroad and my final thesis project led me to deal with a wide variety of people, which in turn led me to listen carefully to the team ideas and express decisively mine.
Teamwork skills	Participation and cooperation in teamwork, developed during my academic career, both for examinations projects and for the project in which I did my final thesis, working with diverse team of engineers and physician. Looking to always be an active part of the group, listening and helping the team to beat the challenges by encouraging a group atmosphere and supporting colleagues.
Interests	Team sports · Countryside working (family business)
	Il sottoscritto acconsente, ai sensi del D. Lgs 30/06/2003 n.196, al trattamento dei propri dati personali. Il sottoscritto acconsente alla pubblicazione del presente curriculum vitae sul sito dell' Univesitá di Ferrara

May 25, 2016