Nicolò Gatta

EDUCATION

MSc Industrial Mechanical Engineering 2013 - 2015
Università degli Studi di Ferrara, Ferrara, Italy
15th December 2015
Final mark: 110/110 cum laude

MSc Renewable Energy Engineering 2014 - 2015
Cranfield University, Cranfield, UK
10th September 2015
Final mark: 80/100

BSc Mechanical Engineering 2010 - 2013
Università degli Studi di Ferrara, Ferrara, Italy
10th October 2013
Final mark: 104/110

Scientific High School Diploma 2005 - 2010
Liceo Scientifico A.Oriani, Ravenna, Italy
July 2010

PROJECTS & EXPERIENCES

Application of Methodologies to Siemens Timeseries Data 1/01/2016 - 31/12/2016
Research Engineer
Consorzio Futuro in Ricerca (CFR), Ferrara

- Development of a statistics based algorithm for the filtering of gas turbine sensors measurements acquired from Siemens units. Enhanced data quality to improve the performance of subsequent diagnostics analysis
- Project commissioned by Siemens
- Meeting and update with Siemens international representatives
- Composition of technical English written reports scheduled on bi-weekly basis
- Programming language: MATLAB

Reliability analysis of coal-fired power plant via Surrogate Modelling 05/2015 - 09/2015
MSc Thesis, Cranfield University

- Development, comparison of performance of Kriging and Radial Basis Function (RBF) surrogate models, aimed to describe the behaviour of non-linear engineering systems
- Coal-fired power plant with incorporated Carbon Capture Storage (CCS) system considered as case study
- Programming Language: MATLAB

Modelling and Prototyping of a Two-Axis Solar Tracker 02/2015 - 05/2015
MSc Group Project, Cranfield University

- Complete mechanical and control system modelling for preliminary performance evaluation
- Prototype realisation
- Testing campaign for performance evaluation
- Software: SIMULINK and SOLIDWORKS

CFD Analysis of an Industrial Fan 05/2014 - 07/2014
MSc Group Project, Università degli Studi di Ferrara

- Assessment of fluid dynamic anomalies occurring during the operation of an industrial fan on the overall performance
- Final presentation of results in front of academic attendance
- Software: ANSYS and SOLIDWORKS

Hydro Turbines: Going Further 06/2013 - 09/2013
BSc Dissertation, Università degli Studi di Ferrara

- Research concerning state of the art technologies for conventional and novel hydro power technologies, such as tidal energy and micro energy production

PUBLICATIONS

Gatta, N., Hanak, D., Manovic, V., Kolios , A., Reliability analysis of coal-fired power plant via surrogate modelling: a comparison of radial basis function and kriging (submitted to *Reliability Engineering & System Safety* on 14/05/2016, currently under review)

LANGUAGES

English Professional proficiency, IELTS certificate (7.5/9.0)
French Basic proficiency

COMPUTER SKILLS

Engineering Software: MATLAB, SIMULINK, ANSYS, SOLIDWORKS, ABAQUS
Other Software: MS Office, LaTex
Operating Systems: MS Windows, Linux

ACTIVITIES & INTERESTS

Travelling oriented
Interested in sailing, football, snowboarding and vintage motorbikes

REFEREES

Prof. Mauro Venturini	Dr. Athanasios Kolios
Professor	Director of School of Energy Doctoral Training
Università degli Studi di Ferrara	Cranfield University