

EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Name COLLIVA FRANCESCO
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Nationality Italian
Date of birth 08/09/1997

WORK EXPERIENCE

- Dates 17/05/2021 – 31/10/2021
- Name and address of employer Research Centre ENEA Frascati, Rome
- Occupation or position held Internship for Master Thesis
- Main activities and responsibilities Study of the behaviour of circulating water in a sector of the DTT Vacuum Vessel, an experimental fusion reactor scheduled to be built at the ENEA Frascati Centre in 2022. This study involves analysis using the Ansys-CFX thermal-hydraulic simulation program and evaluation of the configuration to be adopted.

- Dates 09/09/2019 – 14/11/2019
- Name and address of employer Research Centre ENEA Frascati, Rome
- Occupation or position held Internship for Bachelor Thesis
- Main activities and responsibilities Study of the effect of the impact of a neutron flux on the divertor of a nuclear fusion reactor, with the evaluation of activity of its materials, using the simulation code FISPACT-II.

- Dates 29/12/2018 – 28/01/2019
- Name and address of employer "Tecnologie Solidali" ONLUS
- Occupation or position held Internship
- Main activities and responsibilities Participation in the 13th edition of the "Field Study Abroad" project held in Rwanda, Uganda and Kenya with on-site presence. This project consists in the study of renewable energy mini-grids for the modernisation of developing rural communities in several African and Central American countries. A number of renewable energy installations were visited and analysed this month.

- Dates 2020 - 2021
- Name and address of employer Sapienza, University of Rome
- Occupation or position held Collaboration Grant winner
- Main activities and responsibilities Scholarship holder at the libraries of the Departments of Building-Architecture Engineering- (2020-2021) and Chemical Engineering (2021).

PROJECTS

- Description Design of some aspects of a light water PWR nuclear power plant, in particular: sizing of the core, sizing of the pressuriser, evaluation of the power absorbed by the pumps for the circulation of the cooling water.

- Description Studying the neutron population composition of a nuclear fission reactor by solving the 0-dimensional diffusion equation.

EDUCATION AND TRAINING

- Dates January 2022 - Present
- Name and type of organisation providing education and training Sapienza, University of Rome
- Qualification **PhD in Energy and Environment**

- Dates September 2019 – 18/10/2021
- Name and type of organisation providing education and training Sapienza, University of Rome
- Title of qualification awarded **Master's Degree in Energy and Nuclear Engineering - Class no. LM-30**
- Thesis Title "Thermal-hydraulic analysis of a sector of the DTT Vacuum Vessel and optimization of water flow path"
- Internship Enea Frascati R.C, Rome
- Level in national classification 110/110 cum Laude

- Dates September 2016 – 14/11/2019
- Name and type of organisation providing education and training Sapienza, University of Rome
- Title of qualification awarded **Bachelor's Degree in Energy Engineering - Class no. L-9**
- Thesis Title "Studio dell'impatto neutronico su un divertore di metallo liquido in macchine Tokamak"
- Internship Enea Frascati R.C, Rome
- Level in national classification 110/110 cum Laude

- Dates September 2011 – July 2016
- Name and type of organisation providing education and training Scientific High School "Vittoria Colonna", Rome
- Title of qualification awarded **Certificate of maturity**
- Level in national classification 100/100 cum Laude

AWARDS AND ACKNOWLEDGMENTS

- Date 2020
- Issuing Authority National Academy of Sciences
- Title Award "Grand Challenges Scholars Program 2020"

- Dates 15/01/2019 – 24/01/2019
- Issuing Authority Res4Africa
- Description Participation in loco to V and VI modules of *Micro-Grid Academy* dedicated to "Operation & Maintenance: most utilized micro-grid technologies and data management" held in Nairobi, Kenya. It is an international and multicultural training project about planning, design and realization of rurales micro-grids, with the aim of promoting economic, social and cultural development of these areas.

- Dates 12/01/2015 – 16/03/2015
- Issuing Authority Luiss and La Sapienza Universities
- Description Participation to the class *App&Startup – Per progettare attorno a una app.*

- Dates 14/03/2014 – 16/05/2014
- Issuing Authority Luiss and La Sapienza Universities
- Description Participation to the class *I²: Informatica e Impresa.*

**PERSONAL SKILLS
AND COMPETENCES**

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

GOOD

GOOD

GOOD

**SOCIAL SKILLS
AND COMPETENCES**

Excellent teamwork skills and ability to adapt to the working environment. Ability to communicate clearly and precisely.

**ORGANISATIONAL SKILLS
AND COMPETENCES**

Ability to organize work and to respect deadlines, acquired through work experiences in internships. Ability to work accurately even in stressful situations.

DRIVING LICENCE(S)

Self-driven, B licence.

ADDITIONAL INFORMATIONS

Available to work in Italy and abroad.
Available to work on overtime.