

PERSONAL INFORMATION

Ferdinando Gasparini



✉ ferdinando.gasparini@igi.cnr.it

WORK EXPERIENCE

2020 - Present

Power System Engineer

Consorzio RFX, Padova, Italy

- European Engineering Grant on Study of DEMO fusion power plant power flows, interconnection with EU power grid and design of the electrical generator;

Business or sector Energy, R&D

Sep 2016 - Oct 2016

Internship

Equipaggiamenti Elettronici Industriali EEI s.p.a. - VICENZA (VI) ITALIA

- Thermal tests, IGBT dynamic characterization, filter optimization, developing of new numerical models, electrical measurements, machines debug and optimization

Business or sector R&D and patents, energy

EDUCATION AND TRAINING

2016 – 2019

PhD candidate in Fusion Science and Engineering

EQF level 8

Università degli Studi di Padova, Padova and Istituto Superior Tecnico, Lisbon

- Thesis Work: "Development and validation of suitable models (of power supply systems) in support of the SPIDER integrated tests and first operation"

2017

State exam to be licensed as Industrial Engineer

2014 – 2016

Electric Energy Engineering

EQF level 7

Università degli Studi di PADOVA – Department of Industrial Engineering

2nd level degree - Master

- Thesis Work: "Characterization and optimization of a fast converter to control plasma instabilities in JT-60SA"
- Final Degree Mark: 110/110 cum laude

2011 – 2014

Energy Engineering

EQF level 6

Università degli Studi di PADOVA – Department of Industrial Engineering

1st level degree - Degree/Bachelor

- Thesis Work: "Energy storage systems for pulsed thermonuclear fusion power plants"
- Final Degree Mark: 107/110

PUBLICATIONS

Journal articles

"Investigation on stable operational regions for SPIDER RF oscillators"; Ferdinando Gasparini, M. Recchia, M. Bigi, T. Patton, A. Zamengo, E. Gaio; Fusion Engineering and Design, Elsevier, (2019)

Journal articles

"Design and Manufacturing of the SiC-Based Power Supply System for Resistive-Wall-Mode Control in JT-60SA"; A. Ferro, Ferdinando Gasparini, E. Gaio et al.; IEEE Transactions on Plasma Science; Institute of Electrical and Electronics Engineers (IEEE) (2018)

Conference proceeding

"A transient model for electric devices not representable with rational transfer functions"; A. Ferro, Ferdinando Gasparini; 2017 19th European Conference on Power Electronics and Applications (2017)