

# PANAGIOTIS ELEFThERiADiS

Milano, Italy

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## PROFILE

- *Excellent command of Electrical Engineering and outstanding knowledge of Computer Coding - see excellent results throughout my professional career and the university studies of Electrical and Computer Engineering*
- *Renewable energy oriented* – Ph.D. Student in electrical engineering on the batteries and photovoltaic field,
- *Dynamic, flexible and Spanish Bilingual* - see the wide variety of academic competencies, and interpersonal skills already gained, all achieved whilst helping international students in the Erasmus Student Network community on a voluntary basis

## EDUCATION

### Ph.D. in Electrical Engineering

Politecnico di Milano (2020-present)

- Ph.D. student in “Predictive methods for SOC and ageing estimation of storage systems and their integration in EMS of Microgrids “
- Researcher at MultiGood MicroGridLAB of Politecnico di Milano

### MEng Electrical and Computer Engineering, Energy Engineering

Aristotle University of Thessaloniki (2011-2017)

- High standard of academic performance (amongst the top 15% of graduating class)
- Ranked 30 out of 215 students, with an overall grade point average of **8.1/10**
- Volunteer at the *Symposium of Students of Electrical and Computer Engineering* (SFHMMY 7) Thessaloniki, April 2014
- Final Master’s Thesis - “**Economic Analysis of the companies that deal with Renewable Energy Source Aggregating of the European Energy Market**”, Rewarded a 10/10 mark (2017)
- Transmission and distribution lines, Energy Systems Modelling, Electric Machines, Power Electronics, High voltage technology, Renewable Energies, Energy Economics

### Courses / Online Courses:

- Power System Stability and Modal Analysis in PowerFactory, DIgSILENT
- Machine Learning, University of Stanford
- Neural Networks and Deep Learning, deaplearning.ai
- Introduction to Battery-Management System, University of Colorado
- Equivalent Circuit Cell Model Simulation, University of Colorado
- Wind Energy, Technical University of Denmark

### International Exchange Student

University of Zaragoza (Spring of 2016)

## Specific Academic Projects

- Publication “**Validation and self-shading enhancement for SoL: a photovoltaic estimation model**”, Solar Energy, <https://doi.org/10.1016/j.solener.2020.03.099>, (April 2019)
- Final Master’s Thesis - “**Economic Analysis of the companies that deal with Renewable Energy Source Aggregating of the European Energy Market**”, Rewarded a 10/10 mark (2017)
- Study in the design of the converters of an autonomous photovoltaic installation (2016)
- Lightning Protection in the High Voltage Channel (2015)
- Electrical design of an industrial installation of a pumping station (2017)
- Calculation of the large wind turbine coupling devices in an electric network. (2015)

## PROFESSIONAL EXPERIENCE

- **Electrical Design / Project Engineer**, Empresarios Agrupados, (June 2019 – October 2020)

*Professional career in the field of design, modelling and analysis of electrical systems for power generation plants (mainly of renewable energies)*

- *Main Project Engineer for Photovoltaic park Design using AutoCAD and PVsyst*
- *Decarbonation and denuclearization Study of the Penetration of Renewable Energy Sources in the Spanish Electric Grid*
- *Medium and Low voltage electrical calculations*
- *Load Flow, Short Circuit and Machine StartUp Studies, Inrush Current, Overvoltage Protection*
- *ETAP, DigSILENT and PSSE with Python Scripting Automation*
- *Software Development for Cable Sizing Analysis using Python*

- **Software Developer / Consultant**, EVERIS Spain (April 2018 – May 2019)

*Solutions analyst working for Consulting/Outsourcing Company*

- *Software Development using .NET, C#, SQL, Visual Studio, JavaScript, Angular*
- *Databases development and maintenance with Microsoft SQL Server*
- *Functional and Technical Documentation*
- *Agile methodology, JIRA / Confluence*
- *Client Service and Problem Solving*

- **Research assistant:** Internship at **Universidad Carlos III de Madrid** (November 2017- April 2018)

- *Data Analysis and Software validation*
- *Publication: “Validation and self-shading enhancement for SoL: a photovoltaic estimation model”, Elsevier, <https://doi.org/10.1016/j.solener.2020.03.099>*
- *MATLAB, PVsyst*

## Volunteer Service: Erasmus Student Network (2016-present)

- Chief webmaster charged with updating and maintaining website. (2016-2017)
- Executive Board member, responsible for communication, event planning, and public
- Logistics and Event Planning for the 2017 ESN Conference of National Representatives (CNR) held in Thessaloniki

## **FURTHER QUALIFICATIONS**

### **Linguistic Competencies**

- Greek - *Mother tongue*
- English – *Full Professional Proficiency*
- Spanish – *Native Proficiency*
- German – *Elementary Proficiency*
- Italian – *Limited Working Proficiency*

### **Softwares - Informatic**

- Excellent use **DlgSILENT // PSSE // ETAP // AutoCAD // Matlab // PVSyst // MS Office**
- Excellent knowledge **Python // .NET // C# // C // C++ // Javascript // SQL // Angular // VBA**

### **Referees:**

Prof. Dr. David Santos Martin, University Carlos III of Madrid, [dsmartin@ing.uc3m.es](mailto:dsmartin@ing.uc3m.es)