



# Athanasios Botsis

Electrical Engineer MEng, MSc

  **Date of birth:** 21.05.1985, **Address:** Chalandri, Athens, Greece, **Nationality:** Greek, **Tel:** (+30) 694 290 7763

## EDUCATION

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2017-2019: **Energy Production and Management – MSc – Interdepartmental Postgraduate Course**  
**National Technical University of Athens (NTUA)**

GPA: **8.5/10**

Thesis: Optimal Scheduling of Production Units Considering Active Distribution Networks

Supervisor: N. Hatziargyriou

2005-2016: **Electrical and Computer Engineering – MEng – Major in Power Engineering**  
**National Technical University of Athens (NTUA)**

GPA: **7.7/10** (top 20%)

- FLOW E: ELECTRIC POWER SYSTEMS
- FLOW Z: ENERGY CONVERSION, HIGH VOLTAGES AND INDUSTRY APPLICATIONS
- FLOW O: MANAGEMENT AND DECISION SUPPORT SYSTEMS

Thesis: Identification of Critical Branches and Buses in Transmission Systems

Supervisor: N. Hatziargyriou

2003: 3<sup>rd</sup> High School of Chalandrion, High School Diploma, GPA: **18.3/20**

## WORK EXPERIENCE

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2017-today: **Research Associate - Power Systems Engineer**

Full time

**National Technical University of Athens (NTUA - ICCS)**

Smart Grids at Electric Energy Systems Laboratory (EESL – SmartRue team)

Participation in EU H2020 Projects: CROSSBOW, COORDINET, TRINITY, DRES2Market

- **Project Management** (resources, team, deadlines, deliverables)
- Deployment of **Use Cases** and Key Performance Indicators (**KPIs**)
- Cost Benefit Analysis (**CBA**) of tools and products
- Technical review of project's deliverables

Supervision of dissertations: Guidance in development of algorithms to solve generation uncertainty scenarios due to the increasing penetration of RES, under the new electricity market framework

Areas of involvement: Energy markets, TSO-DSO coordination, RES penetration, provision of ancillary services from Distributed Generation through energy markets, power system reliability

2020-2021: **Power Systems Engineer**

Part time

**Decentralised Energy Solutions LTD**

Participation in the **INFINITE project** (UKRI)

- Identification of energy flexibility potential in the industrial sector
- **Mathematical modeling** of industrial processes (**demand response / side management schemes**)

2016-2017: **Electrical Engineer**

Full time

**PV Tech**

- **Energy Audits** on buildings
- **PV Planning & Maintenance**
- **Economic evaluation** of RES investments

2009-2014: **Freelance Professional – Private Tutor**

Part time

Providing one-on-one educational assistance to secondary and high school students in **Mathematics, Physics and Programming**

2007-2008: **Sales and Technical Support Engineer**

Part time **e-shop.gr**

- **Sales representative** in the store as well as in the calling center
- Computer systems assembly
- Development of products' descriptions for the company's website as well as creation of technical descriptions for product user manuals

## PUBLICATIONS & CERTIFICATIONS

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- **Coordinating Capacity Calculation via Electricity Market Coupling: Insights from the H2020 CROSSBOW Project** in MDPI journal - electricity (co-author - 2022)
- **Modelling and Optimizing the Value of Flexible Industrial Processes in the UK Electricity Market** IET Book Chapter in "*Industrial Demand Response: Methods, best practices, case studies, and applications*" (co-author - 2022)
- **Wind Energy** Technical University of Denmark (DTU) on Coursera (2017)
- **Modern Technologies for Energy Storage** Piraeus University of Applied Sciences (2016)

## SKILLS

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Power Engineering: **Power Flow** (MatPower), **Optimization** (Yalmip Toolbox), **Energy Markets**, **Target Model**

Programming Languages: **Python**, **SQL**, **C**, **Matlab**, **Git**

Engineering Tools: **AutoCAD**, **PSPICE**, **Relux**, **OpenCart**, **Wireshark**, **Simulink**

Microcontrollers' programming: **Arduino**, **Texas Instruments TM4C129**

Operating systems & Office suites: **Microsoft Windows & Office**

## MORE INFORMATION

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Languages: **English**: Professional working proficiency, **Greek**: Native

Driving License: **A & B (car & motorcycle)**

Military Service Obligations: **Fulfilled**

## OTHER INTERESTS

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Cycling, hiking, swimming, aviation, diving, hobbyist mechanic, new technologies

## REFERENCES

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### **Nikolaos Hatziargyriou**

Professor Emeritus - School of Electrical and Computer Engineering – NTUA

Member of the CIGRE, Fellow Member of the IEEE, Member of the Energy Committee of the Athens Academy

e-mail: [nh@power.ece.ntua.gr](mailto:nh@power.ece.ntua.gr) , website: [www.smartrue.gr](http://www.smartrue.gr)

### **Aris Dimeas**

Assistant Professor - School of Electrical and Computer Engineering – NTUA

Senior Researcher in Smart Grids – Project manager – SmartRue Research team

e-mail: [adimeas@power.ece.ntua.gr](mailto:adimeas@power.ece.ntua.gr)

### **Dimitrios Papadaskalopoulos**

Assistant Professor – Department of Electrical and Computer Engineering - University of Patras

Project Manager UKRI & EU H2020, Fellow Researcher - Imperial College London, Director - DES LTD

e-mail: [d.papadaskalopoulos08@imperial.ac.uk](mailto:d.papadaskalopoulos08@imperial.ac.uk)

(Recommendations available upon request)