

# Pierre-Paul Mouchet

N-SIDE – Functional Systems Architect



## SUMMARY

Pierre-Paul is a **power market expert with over 8 years of experience** contributing to the successful design, implementation, and operation of software solutions for electricity markets used by Power Exchanges and System Operators across the world. His experience covers multiple stages of the value chain, ranging from market design to operational aspects in production.

Pierre-Paul holds an **MSc in Applied Mathematics** from UCLouvain (Belgium) with a specialization in optimization and operational research.

## WORK EXPERIENCE

### Senior Software Engineer – N-SIDE, Belgium

2017 - PRESENT

- Market design advisor for the National Grid Electricity System Operator (NGESO) Enduring Auction Capability (EAC) which co-optimizes the procurement of frequency management ancillary services. Providing expertise in energy economics, auction design, co-optimization, regulatory compliance, ...
- Software Engineer on the N-SIDE Power Matching Solution for the NGESO Enduring Auction Capability, designed to co-optimize procurement of Frequency Response and Reserve products.
- Tech Lead of the N-SIDE Power Matching Solution for the Indian Energy Exchange (IEX), the matching software for the day-ahead and real-time markets in India.
- Tech Lead of the N-SIDE Local Energy Market Solution that coordinates the procurement of flexibility by the TSO(s) and DSO(s) within the EPEX Localflex platform.
- Software Engineer on the Pan-European Hybrid Electricity Market Integration Algorithm (EUPHEMIA) for the European Single Day-Ahead Coupling (SDAC) and Intraday Auctions (IDA).
- Analyst for various consulting missions on the design of energy markets (non-uniform pricing, co-optimization of balancing capacity and energy markets for optimal CZC allocation, long-term allocations inclusion for CORE CCR, ...).

### Consultant – Sopra Banking Software, Belgium

2017

- Deployment of the Sopra Banking Solution at the customer's premises.

## RELEVANT PROJECTS

## AREAS OF EXPERTISE

- Wholesale electricity market and cross-zonal capacity allocation.
- Balancing capacity markets and other markets for Ancillary Services.
- Co-optimization of energy and balancing capacity.
- Transmission-Distribution coordination.
- Electricity markets regulations.
- Auction theory.
- Optimal Power Flow problems.

## TECHNICAL SKILLS

- **Analytics techniques:**
  - Optimization / Operational Research
  - Energy economics
  - Power systems
- **Programming languages:**
  - Java
  - Python

## LANGUAGE SKILLS

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## Enduring Auction Capability - National Grid ESO

- Market design for the co-optimized procurement of Frequency Response and Reserve products.
- Development of a market platform for the Frequency Response and Reserve markets.

## Balancing Reserve - National Grid ESO

- Adaptation of the N-SIDE Power Matching Solution for the procurement of Balancing Reserve.

## Detailed Simulations of Alternative Balancing Solutions - Statnett

- Implementation of an innovative hierarchical balancing mechanism to blend intra-zonal constraints within the inputs sent to the MARI platform.

## N-SIDE Power Matching Solution - Indian Energy Exchange (IEX)

- Adaptation of the N-SIDE Power Matching Solution to the Indian day-ahead and real-time markets.

## EUPHEMIA R&D - European PXs and TSOs

- Market design studies about the European single day-ahead market.
- Research on software performance improvements.

## EUPHEMIA Support & Maintenance - European PXs

- Implementation of new features for the European single day-ahead market and European intraday auctions.
- Continuous improvements, support & maintenance.

## EDUCATION

Florence School of Regulation,  
Online  
2023 – Regulation of the Power Sector

Florence School of Regulation,  
Online  
2022 – Evolution of Electricity Markets in Europe

Université Catholique de Louvain (UCLouvain),  
Belgium  
2015 - 2017 – Master in Mathematical Engineering

Université Catholique de Louvain (UCLouvain),  
Belgium  
2012 - 2015 – Bachelor in Engineering

French – Native

English – Full professional proficiency

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# Damien Denayer

*N-SIDE – Technical Systems Architect*



## SUMMARY

Damien has **over a decade of experience in software development** and **strong expertise in optimization**. He holds a degree in Applied Mathematics and has forged a **deep knowledge of day-ahead and intra-day electricity clearing** as well as various **ancillary services** over the years.

After 5 years of participating in the integration of large-scale software in the banking sector, he joined N-SIDE to participate in the Cornwall local energy market project where he **lead the design and development of a flexibility trading platform with an embedded clearing algorithm**. He then integrated the team working on **Euphemia**, the clearing algorithm used to couple the electricity markets of most European countries where he took the lead of some **R&D tracks** like the implementation of the scalable complex orders or the distribution of the algorithm to get rid of some hardware limitations. He now is the **architect of the N-SIDE Power Matching Algorithm**, a modular and extendable electricity market clearing algorithm.

While remaining the technical product owner of the N-SIDE Power Matching Algorithm, Damien has been working for more than a year on the design and development of the **NGESO enduring auction capability**. This ambitious project aims to create a **trading platform that will allow harmonization and co-optimization of ancillary services across the UK**.

## WORK EXPERIENCE

### *Principal Software Engineer – N-SIDE, Belgium*

2022 - PRESENT

- Technical lead on the N-SIDE Power Matching Platform and Algorithm, a modular and extendable electricity market clearing solution.
- Responsible for ensuring the smooth delivery of our market solutions with a focus on requirements clarification, feedback collection, communication toward market participants,...

### *Senior Software Engineer – N-SIDE, Belgium*

2020 - 2022

- Technical lead on the N-SIDE Power Matching Algorithm, a modular and extendable electricity market clearing algorithm.
- Responsible for ensuring the smooth delivery of our market solutions with a focus on requirements clarification, feedback collection, communication toward market participants,...

### *Software Engineer – N-SIDE, Belgium*

2018 - 2020

- Technical lead on the N-SIDE Power Matching Algorithm.

## AREAS OF EXPERTISE

- Wholesale, Balancing and Ancillary Services markets
- Congestion management, nodal and zonal pricing
- Co-optimization of energy and reserves, capacity remuneration mechanisms
- Day-ahead market clearing, non-uniform pricing
- Transmission-distribution system coordination, flexibility platforms, regulation of network operations

## TECHNICAL SKILLS

### Programming languages:

- Java
- Python

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- Architect and developer of the Cornwall Local Energy Market Algorithm.
- Contributor to Euphemia R&D to improve the algorithm performances using new heuristics like large neighborhood search, custom branching strategies, ...

### **Consultant – Sopra Banking Software, Belgium**

2012 - 2018

- Analyst specialised in trading modules responsible for the integration, customisation and parametrisation of a standard IT solution for various banks.
- Developer collaborating to the integration, customisation and parametrisation of a standard IT solution for various banks.

## **RELEVANT PROJECT**

### **NGESO - Enduring Auction Capability - N-SIDE, Belgium**

2022 - Now

- Solution architect of the Enduring Auction Capability (EAC), a SaaS trading platform delivered to NGESO that allows harmonisation and co-optimization of ancillary services across the UK.

### **Elia - CRM clearing algorithm - N-SIDE, Belgium**

2020 - 2021

- Solution architect for the customisation of our N-SIDE Power Matching Algorithm for clearing of the capacity remuneration mechanism of Elia in Belgium.

### **IEX - DAM and RTM clearing algorithm - N-SIDE, Belgium**

2020 - 2020

- Solution architect for the customisation of our N-SIDE Power Matching Algorithm for clearing of the day-ahead and real-time electricity market of IEX (Indian Energy Exchange) the main power exchange of India.

### **Centrica - Local Energy Market - N-SIDE, Belgium**

2018 - 2019

- Architect and developer of the Cornwall Local Energy Market, a market clearing algorithm integrated into a complete cloud ready market platform developed by N-SIDE and Centrica.

## **EDUCATION**

**Université Catholique de Louvain (UCLouvain), Belgium**

2011 - 2013 – **Master in Applied Mathematics**

**Université Catholique de Louvain (UCLouvain), Belgium**

2004 - 2009 – **Bachelor in Civil Engineering**

## **Computer Science:**

- Gradle
- SQL
- Shell
- Docker
- Kubernetes
- Helm
- AWS
- Argo
- Git
- Gitlab
- CPLEX
- ...

## **Analytics techniques:**

- Linear Programming
- Mixed Integer Programming

## **Software architecture:**

- Design principles: YAGNI, KISS, SoC, WET
- Object-oriented coding skills
- (Micro) Services architecture
- backend designer
- Secure software development

## **Hosting:**

- Reliable hosting setup in HA
- Cloud native app
- Cloud security

## **LANGUAGE SKILLS**

**French** – Native

**English** – Full professional proficiency

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# Zoltán Hajdu

Navitasoft – Project Manager



## SUMMARY

Senior Project Manager and Delivery Executive with more than 10 years of experience in leading the delivery of complex, large-scale IT systems across the energy trading and financial sectors.

Proven track record in managing end-to-end implementation of mission-critical systems, including Energy Trading and Risk Management (ETRM) and Market Management Systems for Transmission System Operators (TSOs) and energy market participants. Extensive experience in highly regulated environments, ensuring compliance with European energy market regulations (e.g. EMIR, REMIT) and operational standards.

Combines strong expertise in project and programme management, Agile and waterfall delivery, system integration, and stakeholder management. Demonstrated ability to lead cross-functional and international teams, manage complex delivery environments, and successfully execute large-scale system implementations.

Currently acting as Chief Executive Officer and Delivery Lead, responsible for driving delivery excellence, organisational performance, and the successful execution of strategic energy market projects.

## WORK EXPERIENCE

### Chief Executive Officer / Delivery Lead – Navitasoft Zrt., Hungary

2025 - PRESENT

Leading the company's overall delivery organisation and strategic direction, with full accountability for the successful execution of complex energy market software implementations.

Overseeing the end-to-end delivery portfolio, ensuring alignment between business strategy, client expectations, and operational execution across multiple large-scale international projects.

Driving governance, delivery excellence, and organisational performance, including resource management, stakeholder engagement, and risk oversight at executive level.

Representing the company towards key clients, including Transmission System Operators and international partners, ensuring successful delivery of mission-critical market platforms.

### Head of Delivery / Project Portfolio Manager – Navitasoft Zrt., Hungary

2021 - 2025

Led delivery of multiple parallel IT projects within the energy and

## AREAS OF EXPERTISE

- Project and programme management
- Delivery of complex energy market platforms
- Market Management Systems and TSO platforms
- Energy Trading and Risk Management systems
- Stakeholder management in multi-organisation environments
- Agile and waterfall project delivery and governance
- Business analysis and product management

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financial domains.

- Managed project portfolio planning, resource allocation, and delivery governance across Agile teams.
- Ensured successful execution of large-scale system implementations, including ETRM and market-related platforms.
- Coordinated cross-functional teams including developers, analysts, and external stakeholders across international environments.

### **Senior IT Project Manager – Navitasoft Zrt., Hungary & Ukraine**

2019 - 2021

Managed end-to-end delivery of complex software implementation projects in the energy domain.

- Coordinated distributed Agile teams across multiple locations.
- Oversaw system integration, requirement management, and stakeholder communication.
- Delivered solutions supporting energy market operations and regulatory compliance.

### **IT Project Manager – Dorsum Plc., Hungary**

2016 - 2020

Managed system integration and software delivery projects in the financial sector.

- Led client engagements, including key account management for major financial institutions.
- Coordinated development and maintenance projects for investment and wealth management systems.

### **Product Owner / Business Development Manager – Navitasoft Zrt. (formerly IP Systems), Hungary**

2015 - 2016

Responsible for product vision and backlog management of scheduling and logistics systems in the energy domain.

- Contributed to business development activities and product positioning.
- Defined requirements and coordinated development activities within Agile environments.

### **Business Analyst – Navitasoft Zrt. (formerly IP Systems), Hungary & Czech Republic**

2013 - 2016

Lead analyst for ETRM system development, focusing on deal capture and trading functionalities.

Worked on implementation of systems supporting energy trading, transaction processing, and risk management.

## **TECHNICAL SKILLS**

- Agile / Scrum project delivery
- Agile / Scrum project delivery, Waterfall
- System integration and API-based solutions
- Market Management Systems (MMS)
- Microservice-based architecture
- SQL, Oracle
- CI/CD, TDD
- Integration of energy market and operational systems

## **LANGUAGE SKILLS**

**Hungarian** – Native

**English** – Full professional proficiency

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Collaborated with international stakeholders and development teams.

### **IT Support Manager – Infomatix Ltd., Hungary**

2012 - 2013

Managed incident and change processes for Business Intelligence systems.

Coordinated customer communication and ensured timely resolution of issues.

Handled budget tracking and reporting for ongoing support projects.

### **Software Tester Intern – Pannon Software Lab, Hungary**

2009 - 2010

Participated in ERP and CRM system testing and quality assurance activities.

## **RELEVANT PROJECTS**

### **MAVIR – SZTIR / BOSS Systems – Navitasoft**

2021 - 2025

As Project Manager involved in the delivery of critical systems supporting the Hungarian Transmission System Operator, including scheduling, balancing, and system operation processes.

### **Ukrenergo – Market and System Integration Projects – Navitasoft**

2019 - 2025

As Project Manager contributed to delivery and coordination of energy market-related system implementations for the Ukrainian TSO, including cross-border and regulatory-aligned solutions.

### **Amber Grid – Energy Market Systems – Navitasoft**

2020-2024

As Project Manager supported implementation of systems for the Lithuanian TSO, focusing on energy market operations and integration with external platforms.

### **Energy Trading & Risk Management (ETRM) Platform – Navitasoft**

2020 - 2023

As Business Analyst and later Project Manager contributed to the design and delivery of a complex ETRM system supporting trading, contract management, and risk management of energy commodities.

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#### **Contact:**

## **Scheduling & Nomination System (Scheduling-IP)**

2019 - 2022

As Product Owner responsible for the development of a scheduling and logistics platform supporting energy market participants and TSOs, aligned with ENTSO-E standards.

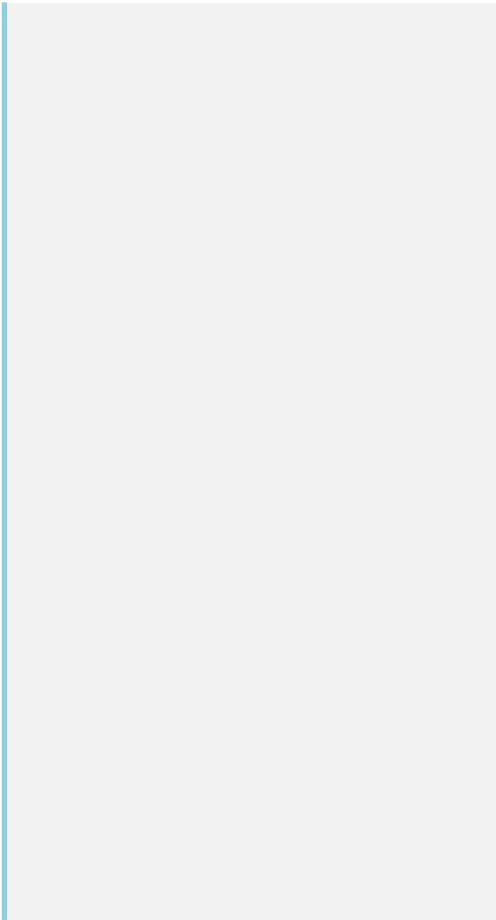
## **EDUCATION**

**Óbuda University, Hungary**

2013-2015 – **Master in Business Development**

**University of Debrecen, Hungary**

2007-2011 – **BSc Engineering Information Technology**



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# Lőrinc Siska

Navitasoft – Test Manager



## SUMMARY

Test Manager and Senior Test Engineer with **more than 8 years of experience** in quality assurance and testing of complex enterprise software systems. Extensive experience in the testing of **mission-critical energy market platforms and Market Management Systems** used by Transmission System Operators and energy market participants.

Specialised in test strategy, integration testing, and coordination of testing activities within Agile development environments. Experienced in leading QA activities for large-scale system implementations involving microservices architectures, API integrations, and high-availability platforms.

## WORK EXPERIENCE

Senior Test Engineer / Test Team Lead – Navitasoft Zrt., Hungary

2017 - PRESENT

Responsible for leading QA activities and coordinating testing processes for complex energy market and balancing platform systems.

- Defined and implemented test strategies, test plans, and QA processes for large-scale software systems.
- Coordinated test activities across development teams and stakeholders in Agile environments.
- Led system, integration, and regression testing for mission-critical market platforms.
- Supported automated testing frameworks and ensured high quality standards across releases.

## RELEVANT PROJECTS

**MAVIR - MAVIR BOSs (Balancing Operation System and Services) – Navitasoft**

As Test Team Lead responsible for planning and coordination of testing activities for the balancing and ancillary services platform of the Hungarian Transmission System Operator.

- Defined test strategy and coordinated test execution for system, integration, and regression testing.
- Ensured quality assurance for a microservices-based Market Management System platform used for balancing market operations.

**Baltic TSOs - Baltic Balancing and Capacity Market (BBCM) – Navitasoft**

As Test Team Lead led QA activities for the development and

## AREAS OF EXPERTISE

- Test management and QA governance
- Test strategy and planning
- System, integration and regression testing
- Testing of energy market and Market Management Systems
- Agile QA coordination
- Test automation and automated testing frameworks

## TECHNICAL SKILLS

- Selenium-based automated testing
- Java, JavaScript, SQL
- API testing and microservices testing
- CI/CD testing processes
- Agile / Scrum development environments

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deployment of a **multi-TSO balancing market platform**.

- Coordinated system and integration testing across distributed development teams.
- Ensured platform reliability and compliance with market operational requirements.

## EDUCATION

**Budapest University of Technology and Economics,**  
Hungary  
2015-2019 – **BSc Computer Science Engineering**

Quentin Grutman  
representing RCG SRL  
CEO  
N-SIDE

Signé par :  
  
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avril 9, 2026

## LANGUAGE SKILLS

**Hungarian** – Native

**English** – Full professional proficiency

Zoltan Hadju  
CEO  
Navitasoft

Signed by:  
  
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April 9, 2026

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