

Damien Pantalos

Energy Engineer



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Summary

I am an energy engineer focused on sustainable systems, AI and data. I hold two master's degrees and a first-class BEng, with training in economics and entrepreneurship. My experience spans EU policy, optimisation and project coordination.

Skills

Programming Python, SQL
Data & cloud PowerBI, Databricks, AWS
Energy modelling Polysun VelaSolaris
Productivity Microsoft Office

Experience

- 2026 - Present **Clean Hydrogen Partnership**
Project Officer in the Operations and Communications Unit • Brussels, Belgium
- Progressed from trainee to Project Officer, supporting grants and communication.
 - Analyse clean hydrogen project data in the Knowledge Hub using PowerBI.
 - Help shape the clean hydrogen research agenda for MFF 2028-2034.
- 2025 **Elia Group**
Internship / Master Thesis • Brussels, Belgium
- Developed a BESS revenue model spanning arbitrage and ancillary services.
 - Implemented the optimisation model in Pyomo and solved it with Gurobi.
 - Calibrated and validated the model using historical market data.
- 2023 - 2024 **Vattenfall**
Energy Analyst / Internship • Stockholm, Sweden
- Supported the Vattenfall-KTH project on Bristol's district heating network.
 - Modelled technology and network options with techno-economic assessments.
 - Recommended solutions based on cost and emissions trade-offs.
- 2021 - 2022 **Synergia SA**
Technical consultant in Maintenance and Operational service • Athens, Greece
- Monitored PV park data, resolved issues, and reported performance KPIs.
 - Designed and developed three PV parks in Greece using CAD.
 - Assessed hybrid PV-storage projects, regulations, and investment plans.
- 2024 - 2025 **Six Senses Laamu**
Energy Consultant / Internship • Maldives
- Audited resort energy use, targeting a 40% emissions reduction by 2030.
 - Expanded on-site solar PV capacity to increase renewable generation.
 - Assessed storage and renewable options to reduce fossil fuel dependence.

Education

- 2023 - 2025 **Double Master's in Environomical Pathways for Sustainable Energy Systems**
EIT InnoEnergy Stockholm, Sweden / Barcelona, Spain
- **KTH**: markets, conversion, renewables. **UPC**: AI, data and grid systems.
 - **ESADE, Barcelona**: entrepreneurship and business operations.
- 2024 **Summer School in Data Science & AI for energy engineers**
KU Leuven, Belgium
- Studied Python, AI, time series, and forecasting for energy flexibility.

2019 - 2023 **BEng in Energy Engineering with Industry Year (First Class Honors)**
De Montfort University, UK
Energy policy, storage, low-carbon technologies, design, and ANSYS.

Projects

2024 - 2025 **Data-driven optimisation of heating/cooling system**
UPC & EIT InnoEnergy
Analysed household electricity data with NILMTK to recommend heat pump capacities.

2023 - 2024 **Helios: Foldable solar systems**
ESADE & EIT
Validated a balcony solar business model through market research and consultation.

2022 - 2023 **Bachelor thesis: Energy systems for net-zero communities**
De Montfort University (DMU), UK
Compared renewable generation and storage scenarios for energy, cost, and impact.

2019 - 2021 **IWES Project**
CEO & Design Engineer • European School of Brussels I, Belgium

- Led IWES, an AI system estimating food waste in school canteens.
- Secured Nvidia sponsorship for technical development and AI integration.
- Prototyped the camera and electronics infrastructure using CREO.

Awards

2024 **Schneider Electric Hackathon**
Barcelona, Spain
1st prize: Smart Energy Strategy App for energy portfolio optimisation.

2014 - 2015 **European Schools Science Symposium (ESSS)**
Varese, Italy
3rd prize: Renewable-powered desalination model for clean water access.

Volunteering and community service

2017 - 2018 **NGO Défie Belgique Afrique (DBA)**
Brussels and Benin, Africa
Traineeship: farmer support, entrepreneurship, fundraising, and reforestation.

Languages

English - C1 **French** - native **Greek** - native **Italian** - A1 **Dutch** - A1

Other interests

