



AURELIAN-ANDREI PANAT

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SUMMARY

Results-driven energy professional with a **Bachelor's degree in Energy Engineering**, and currently pursuing a **Master's degree in Energy**. Experienced in **energy markets**, trading, and renewable technologies. Skilled in data analysis, risk assessment, and energy modeling, with hands-on experience in electricity and gas trading, forecasting, and portfolio optimization. Passionate about flexibility systems, smart grids, and energy transition strategies.

WORK EXPERIENCE

- Commodity Trader, Tinmar Energy Bucharest**Jul. 2024 - Oct. 2024
 - Traded electricity, gas, and oil.
 - In-depth market analysis, optimizing trading strategies.
 - Optimized risk management and minimize exposure.
- Energy Trading Analyst Intern, Tinmar Energy Bucharest**Jun. 2023 - Oct. 2023
 - Consumer energy portfolios, consumption forecasting models.
 - Market risk assessment and analyzed energy price fluctuations.
 - Analyzed trading patterns using market and water level data.
- Optical Technology Engineer**Mar 2020 - June 2023
 - Maintenance, troubleshooting, and optimization of optical technology equipment.
 - Diagnostic assessments, calibration procedures, and maintenance protocols.
 - High standards in optical performance and precision engineering solutions.

EDUCATION

- Undergraduate Studies in Electronic Engineering**Sep. 2015 - Jul 2016

The University of Manchester, UK

 - Focused on Circuit Analysis, Digital System Design, Microcontroller Engineering.
- Bachelor's in Energy Engineering**Sep. 2020 - Jul 2024

National University of Science and Technology POLITEHNICA, Bucharest

 - Grade 85.7%
 - Thesis: 'Floating Photovoltaic Panels: Assessing the Potential, Advantages, and Challenges of Capturing Solar Energy on Water Surfaces'
 - Tilted Global Solar Irradiance model for floating PV analysis.
- Master's in Hydroinformatics and Water Engineering**Oct 2024 - Feb. 2025

National University of Science and Technology POLITEHNICA, Bucharest

 - Research: Study on the Influence of Floating Panels on Evaporation.
- Master's in Energy**Feb. 2025 - Present

MINES Paris – PSL, Paris, France

 - Specialization: Renewable Energy Integration & Energy Efficiency.
 - Core modules: Data Processing, Python, Basics of Nuclear Energy, Heat and Mass Transfer, Fluid Mechanics, Solid-State Electronics

KEY TECHNICAL SKILLS

- Energy Modeling & Simulation: MATLAB/Simulink, Python, Ansys
- Programming & Data Analysis: Python, VBA, C++
- Trading & Market Analysis: Energy derivatives, risk assessment, forecasting models
- Machine & Market Financial Models:Option Pricing,Interpretable Machine Learning (SHAP values, Partial Dependence Plots, Accumulated Local Effects)
- Software & Tools: AutoCAD, PVSyst, EPANET, ArcGIS
- Languages:** Romanian(native), English(fluent), French(intermediate).
- Awards/Activities:** Merit Scholarships:Uniersity of Manchester,Politehnica University of Bucharest