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**

- Tinmar Energy -leading private energy company in Romania
- 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, Spectro Optica Serv. Srl — **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% (Top 10% of class)
- Thesis: 'Floating Photovoltaic Panels: Assessing the Potential, Advantages, and Challenges of Capturing Solar Energy on Water Surfaces" Grade 98% (Top 1% of class)
- 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

- grade 94%
- 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 (advanced), Excel (advanced), VBA(intermediate), 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 Scolarships:Uniersity of Manchester,Politehnica University of Bucharest