Nicolas Noblet



Floating PV Engineer

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Summary

Energy engineer with a double master's degree (EIGSI, Heriot-Watt University) and solar PV experience at TotalEnergies, from R&D at OneTech to performance analysis of a 500+ MWp utility-scale portfolio in Spain. Looking to expand my engineering responsibilities across the development and delivery of floating solar projects in an international environment.

Work Experience

Solar PV Performance Analyst | TotalEnergies Iberica, Spain — June 2026 - Present

- Automated weekly performance reporting and KPI computation for a **500+ MWp** utility-scale PV portfolio in Spain, improving the efficiency and consistency of performance monitoring.
- Built end-to-end data pipelines and **Python** analytics notebooks in **Databricks**, and **Power BI** dashboards tracking energy production, availability and site performance.
- Developed automated monitoring workflows based on SCADA alerts (**Bazefield**) to detect anomalies and underperformance across the portfolio.

Floating Solar PV R&D Engineer | TotalEnergies OneTech, France — May 2025 - May 2026

- Developed and benchmarked floating PV (FPV) performance analysis methods in **Python** on large test-site datasets, including prototype data from the startup SolarinBlue, in support of a scientific publication.
- Co-authored a technical and financial guidelines manual on solar PV revamping with a domain expert, defining the key economic KPIs (**NPV, IRR**) and quantifying OPEX impacts.
- Trained **machine learning** models to estimate module performance and cell temperature from environmental data, enabling performance prediction.

Solar Project Engineer | Solaire Corse, France — Feb 2025 - May 2025

- Designed PV systems from 3 kWp to 250 kWp: **PVSyst** yield simulations, **AutoCAD** layouts, equipment selection (modules, inverters, mounting structures) and AC/DC cable sizing.
- Developed internal **JavaScript** tools to improve the design office's efficiency.

Project

Master thesis | Heriot-Watt University, United Kingdom — May 2024 - Sep 2024
Compared solar-powered desalination technologies for freshwater production; built a **MATLAB/Simulink** model of the plant and estimated its annual water output.

Education

2023 - 2024	MSc in Renewable and Sustainable Energy, with Merit, **Heriot-Watt University**	UK
2019 - 2024	Master of Engineering, major in Energy and Environment, **EIGSI**	France
2022	European Semester in Engineering Design, **Universitat Politècnica de València**	Spain

Training

2025 AI for Data Science, Hi! PARIS Summer School (École Polytechnique and HEC Paris)
PVSyst and grid-connected solar PV, INES (French National Solar Energy Institute)

Skills

Energy and design:	PVSyst, Bazefield (SCADA), MATLAB/Simulink, AutoCAD
Data and programming:	Python, Databricks, Power BI, JavaScript, VBA, MS Office
Languages:	French (native), English (fluent, C1), Spanish (professional)