

ANOOSHIRVAN MOSTMAND

Energy Engineer & Data Scientist

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WORK EXPERIENCE

Energy Engineer | Data Scientist Researcher

MANAGE 5.0 EU project

📅 March 2024 – Dec 2024

- thesis as "Integrating BIM, BEM, and Deep Learning for Enhanced Energy", in order to Leverage research skills to develop data-driven solutions focusing on energy forecasting models for improved decision-making. Forecasting in Industrial Facilities: A Multi-Model Approach for Predictive Analytics and Real-Time Visualization

Apprenticeships As Energy Engineer

Enel Green Power, SACAL Società Alluminio Carisio S.p.A., Hitachi Rail

📅 Sep 2021 – Jan 2023

- Collaborated on various projects aimed at reducing environmental impact and enhancing sustainability, All projects were held by Clik from Challenge at Politecnico di Torino.
- Worked with Enel Green Power on circularity and sustainability assessment of PV plants (3rd and 4th generation of PV cells)
- Proposed the production of CAC as a by-product in sustainable aftertreatment in collaboration with SACAL and Energy Minimization overview aluminum and cement production units.
- Evaluated a public transport system with a focus on sustainability with Hitachi Railway, Developed dashboards for decision-making based on green mobility indexes.

Techno-economic Analysis

Data Analysis

Energy Assessment

Dashboarding

Energy Engineer

Xeno Enterprise

📅 April 2021 – September 2023

- work in engineering division for the Xeno Enterprise regarding energetic and mechanical projects and develop energy department in this division.
- collaborated on Green steel Project at Xeno in (Slag and Mud recycling process, Integration of H2 in Steel Co).
- work in R&D department for the engineering division.

LESSONS AND PROJECTS

Comprehensive Techno-Economic Analysis of: CAES, biogas-based SOFC system in WWT, Solar Thermal System in Domestic Application

- Comprehensive Techno-economic evaluation of named projects in real cases and provide 4E frame work on them.

Pre-design and Re-design and Re-powering of WEC and a Wind Farm

- Pre-design of a wave energy converter in Bulgaria
- Re-Design and Repowering wind farm in Roio del Sangro, abruzzo, Italy.

Degradation Mechanism of RSOFC (Study, Modelling)

- literature review and study over Degradation Mechanism of RSOFC, modelling Via COMSOL and Matlab.

COMSOL

MATLAB

EDUCATION

Master's degree in Energy and nuclear Engineering- Renewable Energy System

Polytechnic University of Turin-PoliTo

📅 2024

📍 Turin

LAB-EXPERIENCE

Data Science - Developer

- Data Scientist & ML engineer
- Python Developer in the EU project of MAN-AGE 5.0 (AI-Integrated Energy management application for stellantis Auto-manufacturing Facility)

Mechanical Lab

- CAD & CAM.
- Mechanical testing and certification of the workshop.
- Marine mechanic (ICE engine, steam tanks, hydraulics and pumps) & maintenance.

Electrical Lab

- PV system design and grid connection traineeship (PVsyst), Iran TVTO.
- BMS & BAS Iran TVTO (Smart building)

HSE-MS

- HSE-MS and Laboratory and workshop Standardization traineeship in Iran TVTO.

SKILLS

Programming

- Python.
- Julia.
- Matlab.

Design

- CAD (AutoCad, SolidWorks & Revit).
- Script-based CAD (Blender, CadQuery)

Simulation

- Modelica & Simulink.
- Aspen+
- FEM (COMSOL, Python)

Python

- ML & DL.
- Computer vision.
- MLOps.

LANGUAGES

English
Italian
German

Advanced
Intermediate
Intermediate