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WORK EXPERIENCE

Energy Engineer | Research & Industry Experience

TOthefuture Lab

📅 March 2024 -

- Leveraging research skills at drawingTOthefuture Lab to develop data-driven solutions. Applying expertise to an Industry 5.0 EU project for an automotive manufacturer in Italy, focusing on energy forecasting models for improved decision-making.

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

📅 2021

📍 Turin

LAB-EXPERIENCE

Mechanical Lab

- Bachelor thesis on stress-strain testing unite and thermal measurement testing bench.
- Marine Mechanic traineeship focus on (ICE, thermal machines and machinery) in IR Shipping Company, Rasht-Iran.

Electrical Lab

- PV system design and grid connection traineeship, Iran TVTO.
- Building Automation and Building Energy Management System traineeship Iran TVTO

HSE-MS

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

SKILLS

Aspen-Plus

COMSOL

Energy System modelling (Modelica)

Optimization

Python

- ML & DL .
- system design and modelling.

LANGUAGES

English

Advanced

Italian

A2

Persian

Native

German

Limited