



Resume

Welcome to my resume! Here you'll find a glimpse into my career as an Energy and Utilities Project Engineer. I'm passionate about the work that I do and am always striving to improve my skills and expertise. As you browse through my portfolio, I hope that you'll gain a better understanding of my career journey and the projects that I've been involved in. Thank you for taking the time to learn more about me and my work.

Summary

HENI BOUAFIA

Energy and Utilities Project Engineer with over 10 years of experience in industrial utility projects, offering extensive expertise in complex audits and improving energy efficiency by 20%. In-depth knowledge of engineering standards ISO50001 through the development of energy-saving programs. Seeking a senior position where I can leverage my project management skills.

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Professional Experience

ENERGY AND UTILITIES EXPERT

2020 - Present

RMI - Réalisation et Maintenance Industrielle - Rades, Tunisia

- Technical Sales Engineer for TLV, a leading steam equipment company in Tunisia. Generated customer leads and provided technical solutions in the field of steam and condensate systems (with TLV certification). Successfully increased the customer base by 23% through targeted commercial campaigns.
- Optimized utility networks in the agro-food and pharmaceutical industries, managing the project from start to finish. Improved energy efficiency by 20% in a cardboard manufacturing plant by implementing a new steam and condensate system.
- Reduced maintenance costs by 12% for an agro-food industry client by conducting an audit of the steam and condensate network (through an installation audit program and condensate trap survey).
- Coached clients on utilities (Clean & Black Utilities) and trained them on new products such as traps, pumps, and valves. Identified opportunities for process improvements, cost reductions, and energy savings, leading to successful project outcomes.

ENERGY DEPARTMENT MANAGER

2018 - 2020

CTMI-TN: Tunisian Industrial Maintenance Company - Tunis, Tunisia

- Increased productivity by 10% in a resin manufacturing industry by auditing the existing thermal installation and implementing a new steam circuit
- Successfully led a team of 5 technicians to repair and install valves in the petrochemical industry.
- Trained clients (junior engineers) on best practices for industrial utilities: steam, compressed air, and industrial refrigeration.
- Established a new activity in the department: water treatment for industries (RO, PW, WFI, etc.).
- Successfully managed projects with a budget between 100K and 500K.

ENERGY AND UTILITIES MANAGER

2016 - 2018

SOPACO: MOULIN D'OR - Djebel Ouest, Tunisia

- Global Utilities Project Engineer (clean and grey utilities): participated in the establishment of the new SOPACO (Moulin d'Or) factory.
- Drafted and implemented all necessary utility department documents: inputted data into Coswin 8i software.
- Established and implemented ISO 50001 standard: Built KPIs, established performance monitoring dashboards, and identified performance improvement opportunities.
- Negotiated prices and fees with subcontractors, reducing maintenance costs by 15% while ensuring continuity and improved services (PAC, boilers, compressors, pumps, VEV).
- Organized and conducted preventive maintenance of utilities (clean & black) in coordination with the team: implemented necessary documents.

FIRST LINE MANAGER ENERGY AND UTILITIES

2015 - 2016

SNBG-SONOBRA Group / HEINEKEN - Grombalia, Tunisia

- Reduced the factory's electricity consumption by 5% through optimizing the performance of chilled water groups.
- Eliminated minor stops in aseptic lines due to compressed air quality issues, and improved productivity by 15% through advanced KAIZEN techniques, such as improving the compressed air loop.
- Established and implemented the ISO 50001 standard: Improved the thermal ratio (KPI) by 25% over four months by recovering all factory condensates.
- Reduced the microbial load of process water by 80% by implementing a UV system in the reverse osmosis section.

THERMAL DESIGN ENGINEER

2012 - 2015

G.A.T Energy / Nesma Industries - Tunis, Tunisia

- Successfully simulated an absorption machine (LiBr/water) using ASPEN Plus software.
- Participated in the design of a kettle type heat exchanger: thermal design and conducted all thermodynamic studies and energy balances.
- Successfully installed a vacuum sensor on an absorption machine: changed the heat source of the boiler that previously operated on natural gas.

INTERN STUDY ENGINEER

2012

G.A.T Energy / Nesma Industries - Tunis, Tunisia

- Conducted a final project study and designed the thermal aspects of a single-effect water/LiBr absorption machine.
- Modeled the thermodynamics of the machine and performed a full numerical simulation of the machine using Aspen Plus software.
- Designed the heat exchangers' thermal aspects.

INTERN TECHNICIAN

07/2011- 09/2011

S.E.T.E.C Water Treatment and Air Conditioning Company - Nabeul, Tunisia

- Performed heating and air conditioning assessment of a villa.
- Installed air conditioning equipment at the ELDORADO hotel in Yasmine Hammamet, Tunisia.

Education

BACHELOR'S DEGREE IN ENERGY AND ENVIRONMENTAL ENGINEERING

2009 - 2012

ENIM: National School of Engineering in Monastir

Through this program, I gained knowledge in thermodynamics, industrial refrigeration, energy management systems, fluid mechanics, and energy production, including power plants such as thermal, electric and biomass. This education has provided me with a strong foundation to excel in my career as an Energy and Utilities Project Engineer.

PREPARATORY PROGRAM: MATHEMATICS AND PHYSICS

2006 - 2009

IPEIN: Preparatory Institute for Engineering Studies in Nabeul

This program provided intensive courses in mathematics, physics, chemistry, mechanics, and programming, giving me a strong foundation in these key areas.

HIGH SCHOOL DIPLOMA IN MATHEMATICS

2006

Monji Slim High School

I hold a High School Diploma in Mathematics from Monji Slim High School. I graduated with honors, receiving a "mention très bien." This education provided me with a strong foundation in mathematics and analytical thinking, which has been invaluable in my career as an Energy and Utilities Project Engineer.

Languages

Fluent in French, Professional in English, Advanced notions in German, Native Arabic.

 FRENCH: FLUENT

 ENGLISH: PROFESSIONAL

 ARAB: NATIVE

 GERMAN: ADVANCED NOTIONS

Certifications

 PROJECT MANAGEMENT

04/2022

LinkedIn E-learning

 STEAM AND CONDENSATE TECHNOLOGY

03/2019

✿ MICROSOFT PROJECT

05/2018

LinkedIn E-learning

✿ FIRST LINE MANAGEMENT- HEINEKEN

04/2016

Heineken

✿ 100 DAYS OF CODE: THE COMPLETE PYTHON PRO BOOTCAMP BY DR.ANGELA YU

04/2022

Udemy

✿ PYTHON DJANGO: THE PRACTICAL GUIDE

03/2023

Udemy

Courses

◻ TOTAL PRODUCTIVE MAINTENANCE-TPM

SONOBRA GROUP-HEINEKEN

◻ ISO 50001: ENERGY SYSTEMS MANAGEMENT

MOULIN D'OR

Interests

- Programming
- Gaming

- Volunteering

Driver's License

•  Category B