

# ABDELHAFID AFKAOUNI

## ELECTRICAL NETWORK ENGINEER

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 [abdelhafid-afkaouni-ing](#)  AfkaQuantum  Abdelhafid Afkaouni

### PROFESSIONAL SUMMARY

Electrical Networks Engineer and Renewable Energy Systems Specialist with expertise in designing and optimizing electrical networks and integrating renewable energy sources. Committed to delivering smart, sustainable energy solutions for a cleaner and more efficient future.

### EDUCATION

MSc	<b>Mohamed Khider University of Biskra</b> , Electrical Networks.	Biskra, Algeria Septembre 2022 - June 2024
BSc	<b>Mohamed Khider University of Biskra</b> , Renewable Energies (Electrotechnics).	Biskra, Algeria Septembre 2019 - July 2022

### COURSES

<b>Solar Power Plant, Internship Certificate – Solar Power Plant</b>	<b>El Ouajda, Timimoun, Algeria</b> Decembre 2021 - Decembre 2021
<b>Sonelgaz Company, Internship Certificate – Sonelgaz Group – Electricity Transmission and System Operator</b>	<b>Algers, Algeria</b> April 2024 - April 2024

• Gained an intermediate practical insight into the operation and monitoring of solar power generation systems.

• Learned the integration of solar arrays with the electrical grid and SCADA monitoring.

• Gained an intermediate practical insight into the operation and supervision of the national electrical grid.

• Learned about grid stability management and fault detection procedures.

• A deeper understanding of power transmission and distribution coordination.

## SKILLS

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**Electrical Network Design & Analysis:** Proficient in designing and analyzing electrical network schematics to ensure efficiency and safety in power distribution systems.

**Electrical & Electronic Network Simulation:** Experienced in simulating networks to test and optimize system performance before real-world implementation.

**Renewable Energy Systems (MATLAB - PVsyst):** Skilled in designing, monitoring, and analyzing solar and wind energy systems using advanced software tools.

**Control & Programming (Arduino - Proteus - Fritzing):** Ability to design and implement smart control projects using microcontrollers and electronic circuit simulations.

**Engineering Design (AutoCAD Electrical):** Creating precise electrical schematics and diagrams according to industrial standards for documentation and project execution.

**Office Software (Word - Excel - PowerPoint):** Proficient in preparing technical reports, data analysis, and creating professional presentations.

**Visual Design (Canva):** Creating professional visual content such as presentations, resumes, and marketing materials.

**Computer Maintenance:** Diagnosing faults and maintaining hardware and software components for optimal performance.

## LANGUAGES

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**Arabic:** Native speaker

**English:** Good working knowledge

**French:** Good working knowledge

## ACHIEVEMENTS

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- Conducted a technical and analytical study on electricity consumption and peak demand in Algeria, using precise data from Sonelgaz's Electricity System Operator.
- Front-End Web Developer with experience in creating responsive and interactive web interfaces, focusing on modern UI/UX design. Projects include a personal portfolio website, a hospital website, a university website ...

## INTERESTS

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- Developing renewable energy systems (solar and wind).
- Simulation and design of electrical and electronic networks.
- Programming and smart control using Arduino and SCADA systems.
- Designing responsive and efficient web interfaces and websites.
- Visual design and creating engaging content.