

# Hesham Salah

SENIOR POWER PLANT SHIFT OPERATION ENGINEER



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## Objective

Engineer and innovation leader with deep experience in large-scale power plant operations, now focused on applying **AI, machine learning fundamentals, and data analytics** to transform industrial workflows and elevate operational excellence. Through my involvement in Siemens Energy innovation sprints, venture programs, and volunteering as a Digital Transformation Expert with non-government organization working with Erasmus+ and European Commission, I combine technical domain expertise with a strong digital mindset. Seeking opportunities to contribute to AI-driven products, data platforms, and transformation initiatives that shape the future of energy and industry.

## Experience

### Siemens Energy | Senior Shift Operation Engineer

2019 – Present

Combined cycle power plant (New capital power plant in Egypt 4800 MW)

- Operate, monitor, and maintain combined cycle power plant equipment, ensuring safe and efficient production.
- Perform system isolations (LOTO), plant startups/shutdowns, and maintain detailed operational logs and reports.
- Carry out work in procedures, risk assessments and ability to do daily reports stating the condition of the whole power-plant, create isolation/normalization list on **WebBFS**, do **PTW** work and follow-up **PCM&PDC** reports.

### Innovation & Data Analysis Work Experience in Siemens Energy:

- **Innovator** in **Exo Sprint II** initiative 2022 for **Innovation** and start-ups with ongoing engagement with SE Innovation & SE Ventures Community in entrepreneurial journey.
- **Venture Associate** in Venture Clienting team manager program 2025.
- **Innovation Coach** for Senior Talents Sprint 2025.
- **Data Analysis Team Lead** in ExO Alumni Community since 2024.

### Egyptian Electricity Holding Company | Shift Operation engineer

2016 – 2019

(New Capital Combined Cycle Power Plant 4800 MW)

### Nile Engineering consultant Bureau | Commissioning Engineer

2015 – 2016

(National Project AL Amrya Grain Silos)

### Egypco Trading Company | Heavy Equipment Maintenance Engineer

2014 – 2015

(Hyundai Heavy Industry and Kobelco Cranes Co.)

**COMMUNITY MOBILIZER AND DIGITAL TRANSFORMATION EXPERT**

- Designed and led community mobilization strategies targeting youth, women, and grassroots initiatives, ensuring inclusive participation in non-formal education and civic engagement activities.
- Implemented digital transformation solutions for community-based projects, integrating social media tools, content strategies, and data-driven outreach to enhance visibility and impact.
- Mentored young participants on digital skills, online advocacy, and personal branding, supporting youth employability and civic participation.
- Contributed to organizational strategy by applying human-centered design and systems thinking to program planning, monitoring, and community feedback mechanisms.

**Education & Trainings**

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Helwan University, Bachelor of Science

2014

Major: Mechanical Power Engineering | Grade: Very Good

+ (Power Plant Operation Training) by **SIEMENS** Training Center in **Germany** 2017+ (AI Augmented Professional Development Skills in the Digital Age) by **ALX** 2024+ **Venture Associate Workshop** (Program Manager Track) by **SE Ventures** in **Berlin** 2025+ (Innovation Roundtable® Workshops) by **AB InBev** in **Leuven, Belgium** 2025

(Generative AI for Innovation &amp; Customer Insight/Culture for Innovation &amp; Transformative Leadership)

+ **Product Owner Training** – Scrum Framework 2025+ **RCM Principles** (Reliability-Centered Maintenance) - Asset Management Training 2025**Languages**

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- **English** – Fluent (C3)
- **German** – Elementary (A2) with continues learning towards professional level.
- **Spanish** – Elementary (A1)
- **French** – Basic (A1)

**Skills & Abilities**

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- **Data Analysis and Visualization** by **Microsoft Power BI**.
- Proficient in using **AI tools** and technologies.
- SolidWorks Design **AutoCAD** drawing & design.
- Microsoft Office Apps & **SAP** knowledge.
- Programming web development front end.
- Troubleshooting and debugging.
- **WebBFS**, PTW work.
- Creative troubleshooter.
- Versatile and resourceful.
- Project management skills.