# Abdel-Rahman Hussien Abdel-Wahab

Mechanical Design Engineer.

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<u>Location:</u> Riyadh, Saudi Arabia <u>Nationality:</u> Egyptian

## **Professional Summary**

Mechanical Design Engineer with solid experience in WWTPs (up to 60,000 m³/day) and RO plant installation in Egypt. Currently based in Saudi Arabia, working on a 1 billion SAR water transmission infrastructure project. Skilled in mechanical design, P&IDs, equipment sizing, and vendor coordination. Strong knowledge of rotating equipment specially pumps, and technical office work, focusing on pumping stations and pipelines.

# **Work Experience:**

### SAWAED SDN JV Company

Location: <u>Riyadh, Saudi Arabia</u>
 Duration: (10/2024 – Present)

o Role: Water Utilities Mechanical Technical Office Engineer

#### o Technical Responsibilities:

- Review project specs, prepare RFQs for mechanical equipment, and review vendor proposals.
- Coordinate with consultant and client (WTCO & SWCC) to approve workshop drawings & material
  application for implementation.
- Evaluate vendor offers and prepare material applications for client (WTCO) approvals.
- Conduct site visits to prepare <u>As-Built</u> documentation for pumping stations, pipelines, valves, vent, and drain station
- Revise General layout drawings, system flow diagrams & P&IDs.

### INTECH Hassan Allam Holding

- o Location: Cairo, Egypt
- o Duration: (1 Year) (11/2023 10/2024)
- o Role: Sewage Treatment Plants Mechanical Design Engineer

### o <u>Technical Responsibilities:</u>

- Review project specifications, ensuring compliance with the approved scope.
- Perform hydraulic, process, and mechanical calculations, sizing pipes, and equipment.
- Prepare RFQs for equipment and materials & review vendor proposals.
- Prepare equipment, piping layouts, process flow diagrams, civil guide, and P&IDs.

### NANO WATER TECHNOLOGY

- o Location: Cairo, Egypt
- o Duration: (5 Month) (07/2023 11/2023)
- Role: Desalination Plants Mechanical Installation and Commissioning Engineer

#### o Technical Responsibilities:

- Led a team of 7 in installing mechanical and electrical components in a 1000 m<sup>3</sup>/day SWRO plant.
- Managed warehousing operations.
- Prepare materials requirements and BOQ.

#### **Education:**

• Bachelor's degree in mechanical power Engineering – Cairo University (Class of 2023) Accumulative Grade: 78% (B+)

#### **Certificates:**

#### Rotating Equipment (Machinery) Diploma

- o Instructor: Engineering Tracks
- Duration: (3 Month) (03/2025 06/2024)
  - Turbo & PD. Pumps
  - Turbo & PD. Compressors

- Mechanical Seal
- Gas & Steam Turbines

### Diploma in Water Desalination RO Plants System Design

- o Instructor: Engineer Ahmed Khairy
- o Duration: (1 Month) (06/2024 07/2024)
  - Pre-treatment systems and methods of RO plants.
  - Pumps, PV, and membrane sizing.
  - RO plant process design, P&IDs, and PFDs.

Udemy Courses:

0	Piping Fabrication with Isometrics	(4 hrs.)	(12/2024)
0	Skills for Health, Safety, and Environment Essentials – HSE Level 1	(3 hrs.)	(12/2024)
0	Professional Email Writing	(6 hrs.)	(11/2024)
0	PG Diploma in Piping Design Engineering	(15 hrs.)	(07/2024)

#### Control & Automation Diploma

Instructor: HA Consulting Group

o Duration: (3 Month) (08/2022 – 11/2022)

### **Projects:**

• HALI DAM: SHOAIBA Water Transmission System and Pumping Stations.

Contractor: SAWAED SDN JV Company (Oct. 2024: Present)

Client: WTCO

Consultant: Khatib & Alami
Project Budget: 1 Bilion SAR

Scope of work:

- Upgrading & Refurbishment of existing lifeline (Hali : Shoaiba)
- Construction of 2 main pumping stations (Hali & Lith)
- Construction of Tap off & Tie in Stations
- ABEES <u>ASPR</u> WWTP System Design (25,000 62,500 m³/day).

<u>INTECH – Hassan Allam Holding Company</u> (April 2024: Oct. 2024)

• MARSA MATROUH EA WWTP System Design (30,000 - 60,000 m³/day).

<u>INTECH – Hassan Allam Holding Company</u> (Feb. 2024: Oct. 2024)

Led Installation and Commissioning of Reef Oasis Marsa Alam Hotel 1000 m³/day <u>SWRO</u>
 Desalination Plant. (Jul. 2023: Sep. 2023)

Nano Water Technology Company

Led the Installation and Commissioning of JIMMA Marsa Alam Hotel 1500 m³/day <u>SWRO</u>
 Desalination Plant. (Sep. 2023: Nov. 2023)

Nano Water Technology Company

• Led a team of 6 in a graduation project on work-life integration Ways to integrate PV – RO

**Desalination Plant.** Grade: A+ (June 2022: June 2023)

Faculty of Engineering Cairo University

## Language and Skills:

- Excellent command of both written and spoken English.
- Advanced reporting & communication skills.
- Software Design Tools:
  - Mechanical AutoCAD
  - Projection Software (Wave, Hydanautics, and Toray)
  - SolidWorks
- Computer Skills:
- · Microsoft office

All References are available upon request.