



# MOHAMMED AL-MUKHTAR YJ

SPECIALIZATION IN INFRASTRUCTURE PROJECTS (WATER TREATMENT, POWER STATIONS, AND FINALLY THE ISP) & **TRAINER ENGINEER**

**I&C ENGINEER**

**1993-JAN-24**

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## PROFILE SUMMARY

MCE (Masters in Computer Engineering) with distinction and 14 years of experience between a technician and an engineer in infrastructure projects ( Water treatment, Power stations, and finally the ISP ). Experienced in the field of preventive maintenance in all of the above. Good experience in the field of emails. And at last good supervisor.

Finally, I considered one of the most important **trainers** in the field of control, embedded systems, controllers, and mobile device architecture.

## PROFESSIONAL SKILL

Supervisor Engineer | Team Leader  
**Trainer manager** | HSE-OSHA engineer  
project officer | On call Support Engineer  
Work under high pressure

## TECHNICAL SKILL

PLC programmer | Electrical Motor maintenance |  
Operation Engineer Caterpillar Generators Cat 3608 |  
Computer Hardware / Software maintenance |  
**Training engineer** | MDB Control Maker | Lighting Design

## EDUCATION

**( Graduated With GPA 68.899) BA Degree**

**2013-2018**

AL-Iraqia University collage of engineering , Network Engineering Department  
BA in Network Engineering at the Iraqi University, College of Engineering

**( Graduated with GPA 79.722) Master Degree**

**2019-2022**

AL-Iraqia University collage of engineering , Computer Engineering Department  
Master of Computer Engineering at the Iraqi University, College of Engineering

## WORK EXPERIENCE

**Iraq sales manager engineer / ECOFLOW**

**April 2023 - Till now**

- Achieve growth and hit sales targets by successfully managing the sales team
  - Design and implement a strategic business plan that expands the company's customer base and ensure it's strong presence
  - Own recruiting, objectives setting, coaching and performance monitoring of sales representatives
  - Present sales, revenue and expenses reports and realistic forecasts to the management team
  - Identify emerging markets and market shifts while being fully aware of new products and competition status
- in general: Achieve growth and hit sales targets by successfully managing the sales team Design and implement a strategic business plan that expands company's customer base and ensure it's strong presence Own recruiting, Objectives setting, coaching and performance monitoring of sales representatives Build and promote strong, long-lasting customer relationships by partnering with them and understanding their needs Present sales, revenue and expenses reports and realistic forecasts to the management team Identify emerging markets and market shifts while being fully aware of new products and competition status
- Skills: Solar Power Solar System Design Rectifier Management Engineering Management I&C Electronic Engineering

Department of Complexes and Reservoirs / Diwan of the Municipality of Baghdad, Baghdad- alhabibia

- One of the main tasks directed to me is to give comprehensive **training** (divided into two parts for technical staff and engineering staff) in each of the following areas [control systems, electrical controllers, electric pumps and methods of dealing with them, setting up administrative matters, etc. related matters in this field). Below are the other tasks assigned to me:
  - Following up daily tasks
  - Ensure the quality of water suitable for human consumption ( **For 87 Sites** )
  - Follow-up of the chemical percentages in the water (chlorine, alum, salts and turbidity ... for **87 sites** )
  - Follow up administrative work
  - Maintenance of electrical equipment for pumps ( Water Treatment pumps [ **250 m<sup>3</sup>/h up to 2000m<sup>3</sup>/h** ] )
  - Completing the processing of inventory matters
  - **Electrical QC / QA** for each site in **Baghdad**
  - ATS MDB Maker ( 3ph+1 Neutral line , 3Ph+ 1 Neutral + single phase + 1 Neutral [ 4 Live + 2 Different Neutral] )
  - Member of the Baghdad Projects Analysis and Development Committee
  - Responsible for the Department of Auditing Transactions (purchase, processing, maintenance).
  - Member of the third study and analysis committee for the study and development of Baghdad projects.
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(Power maintenance / Network Maintenance ) & Technical department trainer

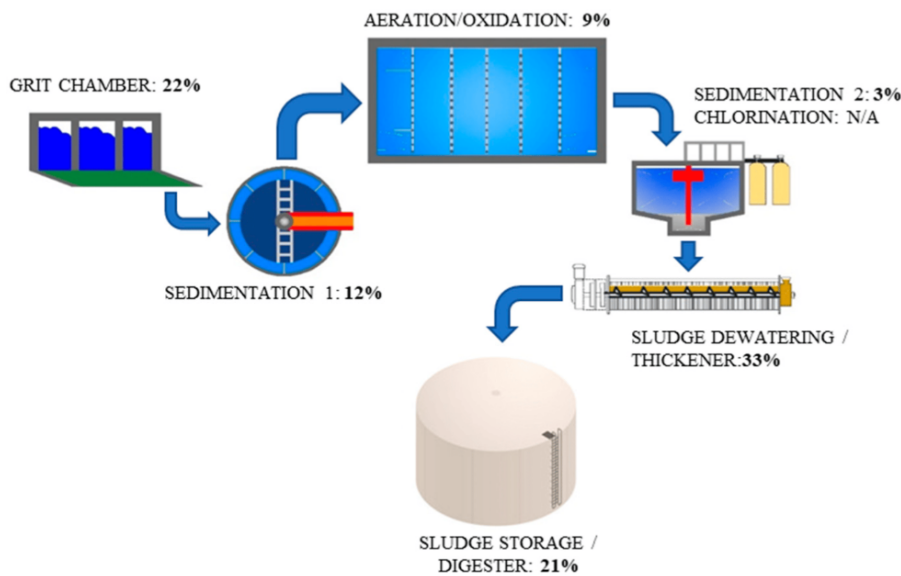
Zain Telecommunications (Awal Telecom ISP), Baghdad- Jadriyah

September, 2022 -December, 2022

- **Training** of technical staff on the control and distribution boards / establishing lectures related to the field of industrial electricity ( all governorates of Iraq)
  - preventive power maintenance
  - periodic maintenance for each device in each site at any regions
  - Site health checker for each device in each site at any regions
  - Site Acceptance , Determine work completion percentages For each new installation site
  - Installation AVR , APC UPS , Huawei UPS and Inverter
  - ATS MDB Maker ( 3ph+1 Neutral line , 3Ph+ 1 Neutral + single phase + 1 Neutral [ 4 Live + 2 Different Neutral] )
  - Following up power issue From ( Basra Um Qaser - To Arbil With totally 314 Site in Iraq Regains )
  - Daily task Reported and monthly report
  - Shelter Earth system maker with it specification standard For AC Devices & Lightning rod For DC Devices
  - ITPC health power check and maintenance ( UPS , PDU , Battery ,DC Box , AC Box )
  - MGW health power check and maintenance (UPS , PDU , Battery , 9k Switch PSU , Distribution Switch PSU)
  - Finding solutions to problems that seem somewhat recent in Power ( Such as 9k Switch PS unit )
  - AC cooling periodic maintenance For 314 Site in Iraq Regains
  - On Call Support and Providing scientific advice to technicians and engineers within the team
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- The most important responsibilities (training the operational staff on this type of station, giving training on how to deal with PLC and finally training in the field of occupational safety.
- Preventive power maintenance in [ Filters Station unites , **Sludge Thickener unites** , Clarifiers unites, pump station unites , Generator unites , **Ozon reactor units** ]
- motor Electrical maintenance (single-phase and three-phase)
- Operation Engineer Caterpillar Generators Cat 3608
- Electrical circuit breakers maintenance
- Establishment of electric lighting for giant stations
- ABB pump operator
- Maintenance of lighting with a hidden electrical installation(underground wiring)
- Electrical transformer maintenance (1 Megawatt up to 4.5 Megawatt Star-Delta Connection )
- Soft-start and Soft-stop power instillation
- Air system backwash Filter station maintenance
- Electrical valve Calibration
- Level sensor calibration
- Level Pressure transmitter calibration
- Sludge thickener Centrifuge maintenance and there other component
- Backwash Tower system health check.
- Maintenance of three-phase submersible 1.5 horsepower and up
- Alum power Mixer maintenance in chemical station
- Electrical maintenance of chemical propulsion pumps (Alum and polymer)

### Training Example Figure



**Filter Station supervisor / Filters department****April, 2021 – Jun , 2021****LRWTP , Baghdad-AL- Shaab**

- Supervising the proper washing of water
  - Track software errors that may occur in PLC ( M340 Schneider )
  - Calibration electronic valve back wash , Drain , Clay lock valve
  - Daily reports of precautionary maintenance
  - Maintenance of backwash pumps
  - Periodic maintenance of cranes
  - Air wash Nozzle maintenance
  - MDB ATS maker & maintenance ["MDB ATS" Refers to Main distributed board automatic transfer switch ]
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**Temporary manager / Sludge Thickener department****January , 2021 – April , 2021****LRWTP , Baghdad-AL- Shaab**

- Follow up the installation of centrifugal pumps according to the specifications approved by Andritz
  - Follow up the installation of polymer pumps
  - Programming part of station In cooperation with Windows of the World
  - Connect Fire alarm station
  - MCB , MDB , in Control room
  - SCADA monitor room operator
  - Determining the completion percentages for the operating company, the completion of the initial and final receipt.
  - VSD installation for pumps ( Falcon brand )
  - Follow up VSD maintenance
  - Feeding power to Sludge tank Clarifier.
  - Trace PLC fault
  - Centrifuge D-Canter Cylendro type installation
  - Power incomer 3.3KV Following up installation
  - C-PAM monitor and Configuration for SS3 Station
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**Mitsubishi (EBESCO) ,Basra AL-Hertha power plant 1000MW 5 units****March , 2020 – November , 2020**

- Consultant of rehabilitation works for the thermal power station
  - Supervising Boiler Turbine installation
  - Supervising turbine maintenance
  - Officer project for Turkish company ( KONAA)
  - Supervising Control Instrument devices and there connection
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**SCADA Room Operator and Monitoring Engineer / SCADA department****July, 2018 – February , 2020****The transfer station north of Baghdad ( ABB ) / Baghdad – Bob ALshaam**

- Monitoring operation for all equipment that runs in Auto mode
  - PLC trace fault and HMI Screen maintenance
  - Replace CB and monitor there ITH
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**Coordinator operations / Technical****August, 2009 – July , 2017****ALwathba WTP , ALrasheed WTP , R14 / Baghdad (Bab al-Mu'azzam / alzaefaranih/ alhabibia) in **General tasks****

- Ensure that the equipment is monitored and that it is operating properly while maintaining the safety of the operators
- Make daily and periodic reports on equipment status

## Coordinator operations / Technical

### Wathba WTP ,AL Rasheed WTP , R14 / Baghdad (Bab al-Mu'azzam / alzaefaranih/ alhabibia) in Detailed tasks IN AL-Wathba WTP & AL Rasheed / Technical

August, 2017 – August, 2013

- ALKefah Sub-Station , The new expansion project sub-station , The old expansion project sub-station
- MDB monitoring ( V, Amp, HZ , Temp , Incomers devices )
- Transformers Monitoring
- Washing water using -pressure filters & open filter by revers washing
- Calibrate the quantities of chlorine injection.
- Scraper power maintenance
- Sludge pump maintenance
- Fermentation of alum in the correct proportions and injecting it into the secondary sedimentation basins
- Cleaning the river outlets and pumps (anti reverse valve)
- Calibration of network pressure to deliver water to the farthest point
- Laying ground cables

### Wathba WTP ,AL Rasheed WTP , R14 / Baghdad (Bab al-Mu'azzam / alzaefaranih/ alhabibia) in Detailed tasks IN R14 / Technical

August, 2013– July 2018

- pump monitor
- SCADA monitor
- ATS maker low voltage
- Switch Gear monitor and maintenance
- chlorine Station monitor
- CAT generator 1MW / 750KW Operator
- Perkins generator 0,5 MW Operator
- Mid tension Pump maintenance
- Maintenance of electric water locks
- Maintenance and installation of chlorine devices
- Field maintenance of lighting, electrical supply lines

## AWARDS AND CERTIFICATE

- \* PLC Automation Course
- \* PLC Fundamental From Scratch
- \* PLC programming From IQN company
- \* Advance PLC by INJAH (code:PL5778)
- \* OSHA Training by ISO 29990 10015 21001
- \* H2S Hazard OSHA29 CRF 1910 ANSI
- \* Drones Fundamental builder by IoT
- \* Lean Canvas marketing law by IoT
- \* Electrical Systems: Panel Boards, Frequency Drives, and Transformers by LinkedIn
- \* Dialux evo by Nelca roco
- \* Electronic Foundemantel by LinkedIn
- \* Microsoft Cloud service by Zain Telecommunications
- \* CCNA (200-301) by Greg Sowell
- \* PVSOL
- \*PMP Course

## CONFERANCES

- Robot and future programs Festival by IOT Company
- The third scientific conference of the Iraqi Ministry of Higher Education
- The second Iraq International Education Fair
- Scientific conference of Iraqi electricians in Nasiriyah

## INTELLECTUAL AND RESEARCH POSTS AT THE LEVEL OF IRAQ

The first winner of Iraq in the competition of innovations and pioneering projects, the "Smart Green interactive City " project 2017–2018

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### OPERATING SYSTEM WORKING

- Microsoft Windows XP ( Fully professional )
  - Kali Linux 2.0 ( Fundamentals of systems protection )
  - Parrot OS
  - Debian OS
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### OTHER SKILLS

- Lecturer of teaching master's students in computer engineering & BA Network engineering
  - HTML , CSS , JS , jQuery , C++ , C# programmer Intermediate level.
  - Photography and montage beginners
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### PROGRAMS AT WORKING ON IT & CLOUDES

Edraw Max	V-rep	MS office	Unitypro	Code::Blocks
DIALux evo	PLCSIM	Monday Cloud	GMWIN	Tia portal
Wireshark	proteus	Airtable Cloud	CorelDraw	Semantic manager
Cisco PT	CAD Simu	Google Drive	MS Form Cloud	Slack
MATLAB	Tshark	Media Fire	CANAVA cloud pro	Other programs.....

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### PUBLISHED SCIENTIFIC RESEARCH

- Scopus index Q3 and Q2 journal with the title
  - "PLC base for sludge thickening unite in water treatment plant"
  - "Sludge Thickeners Establishment PLC Based in AL-Rusafa Water Treatment"
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### LANGUAGES

**Native language:- Arabic** ( Reading, Writing and Speaking )

**Foreign language:- English** ( Reading, Writing , Speaking )

For more information please check me on LinkedIn on this QR Code

**NOTE :- References available upon request**

