



# Gheath Bader

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**Jordan Engineers Association Certified Trainer**

## Objective

A University Lecturer with strong academic and research fundamentals. Teaching courses in Electrical, Energy, Power and Control engineering. In addition, a highly motivated electrical engineer with +9 years' experience in operation & maintenance. I managed to gain the skill of running various kinds of plants using scientific and engineering background. Also, maintain the full operation of the treatment plants as requested by the management in the safest most effective efficient way.

## Personal information

Date of birth: 5th May 1992  
Nationality: Jordanian  
Gender: Male

## Languages

Arabic: Native language.  
English: Excellent written, spoken and read.

## Education

- Master's degree in Electrical Power Engineering from Yarmouk University in 2020 with excellent grade 91%, Rank
- Bachelor's degree in Electrical Engineering/power & control from Mutah University in 2014 with grade 88%, Rank
- High School in Scientific Branch from Irbid secondary School in 2010 with grade 91.1 %.

## Skills

University Instructor, Plant Manager, Certified Trainer, Electrical Engineer, PLC programmer, Operation, Maintenance, PLC programming, Research, Leadership, Teamwork, Reading Electrical Drawings, Listening, Troubleshooting, Time Management, Automation, Training, Design.

## Work Experience

- |  |                                 |                         |
|--|---------------------------------|-------------------------|
| <b>1- Instructor</b>   | <b>German Jordan University</b> | <b>Oct/2023-Present</b> |
| <ul style="list-style-type: none"><li>● Planning teaching, including lectures, seminars/tutorials and learning materials</li><li>● Checking and assessing students' work</li><li>● Pursuing research</li><li>● Carrying out administration, such as attending faculty meetings and writing reports</li><li>● Writing research proposals, papers and other publications</li></ul> |                                 |                         |

- |                    |                                    |                           |
|--------------------|------------------------------------|---------------------------|
| <b>2- Lecturer</b> | <b>Al-Balqa Applied University</b> | <b>Oct/2022- Oct/2023</b> |
|--------------------|------------------------------------|---------------------------|

*Contains:*

- Planning teaching, including lectures, seminars/tutorials and learning materials
- Checking and assessing students' work
- Pursuing research
- Carrying out administration, such as attending faculty meetings and writing reports
- Writing research proposals, papers and other publications
- Studying bids for university.

### **3- Head of Operation & maintenance:**

### **Wadi Arab II Project**

**May/2020– Oct/2022**

Information about Wadi Arab 2 Plant:

contractor: Mapa-Ozaltin / consultant: CDM Smith

The second biggest surface water treatment plant in Jordan with 86000 (M<sup>3</sup>/day)

#### *Contains:*

- Intake: structure, electrical and mechanical equipment, instruments, pumps & motors.
- Pre-sedimentation: two tanks with volume of 22200 M<sup>3</sup>
- Mixers & chemical materials: 8 rapid mixers, 24 slow mixers, Ferric sulfate, Ferrous sulfate, Cationic Polymer, Anionic Polymer, chlorine gas, and chlorine dioxide.
- Sedimentation & flocculation basin: with volume of 15770 M<sup>3</sup>
- Filter: there are two types of filters, Dual media filter and carbon activated filter. Each type has 6 filter with area of 82.5 m<sup>2</sup> and height 2.2 m.
- UV System: The UV capacity of 5210 M<sup>3</sup>/h
- clear well with capacity of 14500 M<sup>3</sup>
- pump station: there are four medium voltage pump station, 4\* 1200 HP Motors, 4\* 1200 M<sup>3</sup>/h Pumps, 23 bar, 1200 mm pipeline, surge tanks and reservoirs.

#### *Responsibilities:*

- Leading & organizing a team of 6 Engineers & 22 technicians in operation and maintenance department. In addition, 20 workers & 21 guards.
- Monitoring & making maintenance for treatment water stations including the equipment.
- Making a schedule of preventive maintenance.
- Allen Bradley PLC Programing.
- SCADA system, PLCs, RTU panels management.
- Working closely with contractor.
- Dealing & making maintenance of Electrical panels, Control panels, Low and medium voltage motors, Protection system, Switch gears panels, Medium and low voltage motor control panels, Water pumps, Water pump stations and Water wells.
- Energy & Consumption Calculation.

### **4- Automation, Instrumentation & SCADA Engineer:**

**September/2017 – May/2020**

Information about project:

contractor: Schneider Electric

The biggest SCADA project in Jordan.

#### *Contains:*

- 6 control centers with full control and monitoring.
- 240 Sites.

### *Responsibilities:*

- Leading & organizing a team of 15 operators & technicians.
- Monitoring & controlling 240 Sites in 4 governorates (pumping stations, wells, boosters, and reservoir).
- PLC Programing.
- Working closely with suppliers & vendors on various support contracts & projects budget 15 million Euros.
- Solving water production's problems related to accuracy of meters, water accumulation, and saving data.
- Reporting to top management daily, weekly, monthly & yearly reports of water status.
- Reducing the operation delay's time by putting a procedure for operators that give them ability to restart the sources again.

### **5- Operation and Maintenance Engineer:                      Wadi Arab I Project                      May/2015 – September/2017**

Information about Plant:

The biggest underground water treatment plant in Jordan with 64000 (M<sup>3</sup>/day)

### *Contains:*

- Aeration Area
- Mixers & chemical materials: 3 rapid mixers, 6 slow mixers, Aluminum sulfate, potassium, Cationic Polymer, chlorine gas.
- sedimentation & flocculation basin: with volume of 5000 M<sup>3</sup>
- Filter: 8 Dual media filters.
- Reservoir capacity of 4000 M<sup>3</sup>
- Pump station: there are nine medium voltage pump station, 4\*670 HP Motors, 4\* 500 M<sup>3</sup>/h Pumps, 2\*675 KW Motors, 2\* 666 M<sup>3</sup>/h Pumps, 3\* 666 M<sup>3</sup>/h Pumps, 3\*623 KW Motors, 23 bar, 800 mm pipeline, surge tanks system and reservoirs with different capacity.

### *Responsibilities:*

- Leading & organizing a team of 8 technicians in maintenance department.
- Monitoring & making maintenance for medium voltage of 9 pumping stations & 25 water wells in 21 different sites.
- Dealing with SCADA system, PLCs, RTU panels, Flow meters, Pressure, level, & other sensors.
- Dealing & making maintenance of Electrical panels, Control panels, Low and medium voltage motors, Protection system, Switch gears panels, Medium and low voltage motor control panels, pumping stations and Water wells.

### **6- Energy Engineer:    Gulf for Energy    September/2014 – May/2015**

### *Responsibilities:*

- Energy solutions
- Design the solar systems
- Installation of solar systems
- Making maintenance for solar systems
- Efficiency optimization for solar systems

## ■ **Courses & technical skills**

- MV Switchgear Testing and Operation from National Electricity Company in 2014.

- AC Motors Control from National Electricity Company in 2014
- PLC (Programmable Logic Control) programming from National Electricity Company in 2014
- House wiring fundamentals from National Electricity Company in 2014
- Power System Protection Fundamentals from National Electricity Company in 2014
- Operation and Monitoring SCADA from National Electricity Company in 2014
- Underground Power Cables Design from National Electricity Company in 2014
- Transformer Operation, Testing and Maintenance from National Electricity Company in 2014
- MATLAB from Mutah University in 2014
- AutoCAD from Mutah University in 2014
- Control panels from AQUARIS FRANCE in 2016
- Generators 250 and 400 KVA from AQUARIS FRANCE in 2016
- KSB pumps from KSB France in 2016
- Electromagnetic flow meters from Siemens in 2016
- Reading electrical plans and electrical installation from Jordan engineers association in 2017
- Renewable energy system PV system from Jordan engineer's association in 2017
- SCADA control center equipment from Schneider Electric in 2017
- SCADA operation system from Schneider Electric in 2017
- SCADA communication system from Schneider Electric in 2017
- Filed instruments and sensors from Schneider Electric in 2017
- RTU and PLC training from Schneider Electric from in 2017
- SCADA system operation from Schneider Electric in 2018
- SCADA system administration from Schneider Electric in 2018
- SCADA system developer from Schneider Electric in 2018
- LV switchgear & Switchboard & MCC from Mapa-Ozaltin in 2020
- MV Soft Starters from Mapa-Ozaltin in 2020
- MV Switch Gear from Mapa-Ozaltin in 2020
- Power Factor Correction from Mapa-Ozaltin in 2020
- Auto Temp Control System from Mapa-Ozaltin in 2020
- Fiber Optic from Mapa-Ozaltin in 2020
- Fire Alarm System from Mapa-Ozaltin in 2020
- Variable Frequency Drive from Mapa-Ozaltin in 2020
- Uninterruptable Power supply from Mapa-Ozaltin in 2020
- PLC BASIC & Advance Allen-Bradley, SCADA BASIC & Advance, & Historian from SAM / Allen-Bradley in 2021
- Uninterruptable Power supply from Trans Jordan in 2021
- Air Blower from Mapa-Ozaltin in 2021
- Chemical mixer from Mapa-Ozaltin in 2021
- Submersible Mixers from Mapa-Ozaltin in 2021
- SCADA Operation from Mapa-Ozaltin in 2021
- Maintenance management system (MMS) from Fiix in 2021
- Certified Trainer from Jordan Engineers Association in 2022
- Practicing academic work in universities and collage universities from Ministry of Education in 2023.

#### ■ **Trainings (For one month or more)**

- Electrical Power System and control system from Electrical National Company in 2014.
- SCADA, PLC, RTU, field instruments and sensors from Schneider Electric in 2018.
- Low & Medium Voltage Training from YOE in 2020.
- PLC and SCADA (Certified) from SAM Engineering / Allen-Bradley in 2021.

■ **Computer skills:**

- PLC & SCADA Programming.
- Microsoft office Word, Excel, power point.
- Computer's knowledge and related troubleshooting.
- MATLAB Programming with Simulink.
- Arduino & other programs.

■ **Volunteering**

- September 2014 – present/ volunteer at COTN

My role; helping the Syrian refugees in outreach service and give them medical care service, also giving them the outreach service and translate between the refugees and the staff, I am volunteering from 2014 till now.

- Sep 2012 – Sep 2014 /Board Member at JUCS

My role; leading student's groups, conference and camps planner and organizer, member of JUCS committee, help in activities, trips and camps.

- Sep 2010 – Sep 2012/ Purchasing manager at JUCS

My role; purchasing all needs for camps that contain 180-200 people, plus helping in kitchen and driving people.