MAJID BAKHTIARI

PERSONAL INFORMATION

- **Date of Birth:** 26 JUN,1987
- **Gender:** Male
- **Skype**: bakhtiari.majid
- **Current location:** Tehran, Iran
- **Cell:**+98-9305103246
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ACADEMIC EDUCATION

- **UNIVERSITY OF ISFAHAN, ISFAHAN, IRAN** **2010-2012**

  - **MSc in Electrical Power Engineering – Electrical Machines and Drives**
  - **Thesis title:** "Speed Control Of Interior Permanent Magnet Synchronous Motor In A Wide Range Of Speed Using Classical And Intelligent Controllers"

  Supervisor: Prof. Behzad Mirzaeian Dehkordi

  Advisor: Prof. Mohammad Ataei

- **CHAMRAN UNIVERSITY, IRAN** **2006-2010**

  B.Sc. in Electrical Power Engineering

  - **Thesis title**: "Reactive Power Compensation And Voltage Profile Compensation Of Distribution Lines Using Capacitor Banks"

    Supervisor: Prof. Saeid Mortazavi

WORK EXPERIENCES

- **TAMIN ENERGY SABZ KAVIR, Tehran, Iran**
  JAN 2022 –MAR 2023

- **POSITION:** ○ Electrical Engineer in charge of basic and detail design

- **Projects:**

ARDAKAN solar power plant (10MW)

A brief of produced Electrical documents:

1- PV System Calculation Study (Array And String Sizing & Derating Curves using PVsyst)
2- Load Study, Short Circuit and Capacity Calculation
3- Lighting System calculation , small power and Single Line Diagram
4- AC & DC UPS calculation and SLD
5- MV & LV panel Schematic diagrams
6- MV&LV Cable sizing calculations
7- MV&LV cable lists (including M.T.O of cables and accessories, cable connections diagrams)
8- CCTV (IP-based system including block diagram, the selection of cameras ,NVR, required UPS, type of cables and interconnections)
9- Meteorological Station Technical Specification and layout of the installation the devices.

ZAHEDAN solar power plant (10MW)

A brief of produced Electrical documents:

1- PV System Calculation Study (Array And String Sizing & Derating Curves)
2- Load Study, Short Circuit and Capacity Calculation
3- Lighting System calculation , small power and Single Line Diagram
4- AC & DC UPS
5- MV & LV panel Schematic diagram
6- MV&LV Cable sizing calculations
7- MV&LV cable lists (including M.T.O of cables and accessories, cable connections diagrams)
8- CCTV (IP-based system including block diagram, the selection of cameras ,NVR, required UPS, type of cables and interconnections)
9- Meteorological Station Technical Specification and layout of the installation the devices.

► MONENCO GROUP(MAPNA GROUP), Tehran, Iran

JUL 2016 –JAN 2022

- **POSITION:** ○ Electrical Engineer in charge of basic and detail design

o Projects :

- **ZANJAN combined cycle power plants (F class 1+1+1 configuration , consist of one Gas portion with 307MW and one HRSG unit and one steam portion with 140MW)**
  A brief of produced Electrical documents:
  1- Electrical load lists (for each portion of plant separately and all the plant in preliminary and detail design)
  2- Main key single line diagram of the plant
  3- Load flow and short circuit analysis (including steady state and all types of short circuit (LLL,LL,LN), motor starting, cable sizing evaluation, etc using ETAP software)
  4- MV&LV Cable sizing calculations
  5- MV&LV cable lists (including M.T.O of cables and accessories, cable connections diagrams)
  6- Main & secondary grounding for all site and each portion of plant (this Item consists of Calculation of grounding bare conductor size of main grounding, allowable touch and step voltages, selection of earth Rods, and prepare M.T.O of all materials and accessories)
  7- Diesel generator calculation document
  8- AC/DC ups calculation and single line diagrams
  9- Heat tracing system calculation and layout
  10- CCTV (IP-based system including the selection of cameras ,NVR, required UPS, type of cables and interconnections)
  11- Lighting and small power calculation, layout and SLD (lighting calculations was performed using Dialux EVO)
  12- Main Cable route of the plant

- **SABZEVAR combined cycle power plants (E class 2+2+1 configuration consist of 2 Gas portion with 2*215MW and 2 HRSG units one steam portion with 250MW)**
  A brief of produced Electrical documents:
  1- Electrical load lists (for each portion of plant separately and all the plant in preliminary and detail design)
  2- Main key single line diagram of the plant
  3- Load flow and short circuit analysis (including steady state and all types of short circuit (LLL,LL,LN), motor starting, cable sizing evaluation, etc using ETAP software)
  4- MV&LV Cable sizing calculations
  5- MV&LV cable lists (including M.T.O of cables and accessories, cable connections diagrams)
  6- Main & secondary grounding for all site and each portion of plant (this Item consists of Calculation of grounding bare

conductor size of main grounding, allowable touch and step voltages, selection of earth Rods, and prepare M.T.O of all materials and accessories)
7- Diesel generator calculation document
8- CCTV (IP-based system including the selection of cameras ,NVR, required UPS, type of cables and interconnections)
9- Lighting and small power calculation, layout and SLD
10- Main Cable route of the plant

- **WEST KAROON combined cycle power plants (E class 2+2+1 configuration consist of 2 Gas portions with 2*166MW and 2 HRSG units one steam portion with 160MW)**

A brief of produced Electrical documents:

1- Electrical load lists (for each portion of plant separately and all the plant in preliminary and detail design)
2- MV&LV Cable sizing calculations
3- MV&LV cable lists (including M.T.O of cables and accessories, cable connections diagrams)
4- Main & secondary grounding for all site and each portion of plant (this Item consists of Calculation of grounding bare conductor size of main grounding, allowable touch and step voltages, selection of earth Rods, and prepare M.T.O of all materials and accessories)
5- Diesel generator calculation document
6- AC/DC ups calculation and single line diagrams
7- CCTV (IP-based system including the selection of cameras ,NVR, required UPS, type of cables and interconnections)
8- Lighting and small power calculation, layout and SLD (lighting calculations was performed using Dialux EVO)

▶ TGC CO, Asaluyeh, Iran

JAN 2016-JUL 2016

- **POSITION:**
  - Electrical Engineer of technical office
- **Project:**

South Pars - 20&21 Phases

▶ STG CO, Asaluyeh, Iran

SEP 2015- JAN 2016

- **POSITION:**

- Electrical Engineer of technical office

Experiences:

Supervision of the installation of electrical equipment such as:

- MV&LV panels
- Diesel generator
- Main & secondary grounding
- LV motors
- Heat tracing system
- Tray/ladder/conduit installation
- CCTV system

- **Project:**

South Pars - 20&21 Phases

Experiences:

Supervision of the installation of electrical equipment such as:

- MV&LV panels
- Diesel generator
- Main & secondary grounding
- LV motors
- Heat tracing system
- CCTV system
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SUMMARY OF QUALIFICATIONS&PROJECTS

- High Flexibility in teamwork and ability to leadership in organizing teams, and ability to work well within cross functional research groups.
- Proven track record of writing and securing grants with ability to manage multiple projects and tasks simultaneously
- Quite familiar with electrical system of solar power plants.
- Quite familiar with electrical system of thermal and combined cycle power plants.
- Hands-on experience in designing MV and LV panels, cable size calculation, Diesel Generator sizing, Heat tracing system, lighting system, and grounding system.
- Hands-on experience in test of Electrical Panels, Transformers, Diesel generators, MV and LV Power Cables.
- Quite familiar and hands-on experience in designing and installation **CCTV** systems.

- Proficient in Calculating and Designing Photovoltaic system with their inverters with battery design using **PVSYST**.
- Hands-on experience in Design and Analysis of Electric Machines using **FEM**
- Proficient in Designing plan for Buildings: **AUTOCAD, Dialux Evo**
- Hands-on experience in calculation of load flow and short circuit in power system with **ETAP**.
- Hands-on experience in development and simulation of control strategies for power electronic systems such as DC/DC converters, DC/AC inverters and AC/DC UPS
- Hands-on experience in calculation and design and optimization of Interior permanent magnet synchronous machine, modular radial and axial flux switching permanent magnet machines, with **ANSYS MAXWELL**.
- Proficient in Finite Element modeling of Electromagnetics System using **Ansys Maxwell.**
- Strong presentation and interaction skill in academic environment
- Proficiency in •ETAP •MATLAB •AutoCAD • PvSyst •Python •Microsoft office products

TEACHING EXPERIENCE

- Electric Machines I, Teaching Assistant, Dr. Bahzad Mirzaeian Dehkordi University of Isfahan, Iran, 2014
- Electric Machines II, Teaching Assistant , Dr. Bahzad Mirzaeian Dehkordi University of Isfahan, Iran, 2015
- Tutor for a number of different courses including Electric Circuit I, Electric Circuits II, Mathematics and Calculus, Differential Equations, MATLAB Programming, ETAP,ANSYS MAXWELL and COMSOL.