

**Contact Information**

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Email: [farhangi.ehsan89@gmail.com](mailto:farhangi.ehsan89@gmail.com)LinkedIn: [\[Webpage\]](#)**Ehsan Farhangi****Electrical Engineer**

Gender: Male

Date of birth: 13 January 1989

*Genius is 1% inspiration and 99% perspiration-Thomas Edison***Education****University of Sistan and Baluchestan**

Zahedan, Iran

M.Sc. in Power Electrical Engineering (CGPA: 17.14/20)

Sep. 2012 - Oct. 2015

- **Selected courses:** Power Electronics, Generalized Theory of Electrical Machinery, Modern Control, Advanced Power System Protection, Electric Power Quality, Power Distribution Systems Design, Linear & Non-linear Planning, Special Topics in Power (FACTS Devices)

**Tafresh University**

Tafresh, Iran

B.Sc. in Power Electrical Engineering (CGPA: 14.51/20)

Sep. 2007 - July. 2012

**Allameh Tabatabaee High School**

Gachsaran, Iran

High School Diploma in Mathematics and Physics (CGPA: 18.16/20)

Sep. 2003 - Jun. 2007

**Work Experience****Monenco Iran Consulting Engineers (March. 2022 - Now)** (Ranked #8 in Iran) [\[website\]](#)• **Job Title: Site Engineer (500 kV S/C HVAC Transmission Line and 500 kV Substation, Kyrgyzstan)**

- Supervising civil works, as well as erection works at site for Transmission Line & Substation
- Checking and Finalizing the Drawings in 500 kV DATKA Substation before Construction
- Supervising for test & Commissioning for Cables and Electrical Panels in Substation
- Supervising tower assembly and tower erection for Transmission Line & steel structure erection for Substation equipment, and Supervising for SCADA system
- Supervising stringing for Transmission Line
- Contribute to the preparation of project monthly, weekly and daily reports
- Ensuring work progress is according to contractual work schedule and following HSE criteria
- Quality control for construction & erection of Transmission Line & Substations
- Test Inspector for Fittings & Insulators in 500 kV OHL
- Checking Contractor Invoices
- Holding regular meetings with the contractor's construction team
- Holding weekly and monthly meetings with contractor and client's representatives at the site
- Checking project activities with ESMP and HSE issues

**Monenco Iran Consulting Engineers (February. 2018 - March. 2022)** (Ranked #8 in Iran) [\[website\]](#)• **Job Title: Electrical Project Engineer**

- Basic Design, Design, and preparation of Engineering Report
- Design Review
- To prepare Specification and Tender documents, Contract Management
- Factory Inspections and Tests
- Familiar with renewable energies as a field of research
- Project Progress Report, and cost control, Controlling delivery of Site Material, Machinery, and Equipment to the site
- Review As-Built documents and drawings
- Assist Client in provisional and permanent project handover

**Nazar Architecture Consulting Engineers (October. 2015 - November. 2017)** [\[website\]](#)• **Job Title: Electrical Designer and Site Supervisor**

- Design and prepare drawings for LV Switchgear and using AutoCAD software for SLD, Layout, and Schematic diagram according to Logic diagram and customer technical specification

- Planning to cost calculation, bid preparation, and documentation of distribution systems in compliance with the standards by using Siemens SIMARIS configuration and LV power distribution and electrical installation handbook (Siemens User Manual)
- Automatic power loss calculation for fast and correct heat calculation, easy price calculation, and bid preparation and ordering by SIVACON software based on IEC standard
- Designing and preparing drawings for earthing systems, and Indoor/Outdoor Lighting using DIALux
- Cable sizing calculation and cable trench drawing
- Interface with customers, suppliers, and project engineers/managers to produce the final electrical design package for manufacturing purposes
- Review specifications and select equipment by software and catalogs that best fit the customer requirements in a technical and cost-effective manner
- Inspecting construction work in progress to ensure compliance with plans, specifications, and quality standards
- Consulting with clients to determine their requirements
- Supervising electrical works as a professional site supervisor

### Software Skills

#### **AutoCAD (Advanced):**

- SLD and Layout drawings
- LV switchgear drawing
- Earthing system and Indoor / Outdoor Lighting drawings
- Electrical detail design drawings (Cable Trench, Equipment, ...)
- Schematic diagram and wiring

#### **DigSILENT (Advanced):**

- Load Flow and Short Circuit (single fault & multiple fault)
- Transient study and relaying
- DigSILENT programming language (DPL- Intermediate)
- LDF and loading
- DSL (start, loading slot, transient fault)
- Maximum loading in line, lines exit and plot in DigSILENT

#### **SIEMENS SIVACON 8PT (Advanced):**

- Designing frame and enclosure for LV switchgear by using variable busbar system
- Operating and handling safety using SIVACON withdrawable-units (cubicles for motor and cable feeders)
- Cable or busbar connection (from above or below)
- Using type-tested switchgear and controlgear assembly (TTA)

#### **MATLAB (Advanced):**

- Modelling electrical power systems using Simulink
- Data analysis (data mining, curve fitting, various eq. solving)
- Optimization and problem-solving using toolboxes
- Result analysis and 2D - 3D plotting

#### **Taksa (Advanced):**

- Project quantity surveying and estimating
- Cost estimation in project management and preparing Tender documents
- project price proposal
- Checking Contractor Invoices

#### **ETAP (Good):**

- Load flow analysis, 1-phase and 3-phase short circuit analysis

#### **DIALux (Good):**

- Designing Indoor/Outdoor Lighting system

#### **PLS-CADD (Basic)**

**MS Office:** MS Word, MS PowerPoint, MS Excel

## Lingual Skills

- Farsi/Persian (Fluent - Mother Language)
- English (B2)
- German (A2)
- French (A1)

## Certification

- PMBOK 6th Edition
- IELTS
- GOETHE (DSIT)
- ISO 9001:2015
- Design and Implementation of Earthing System
- Design and Implementation of the Capacitor Banks
- Transient Examination of Protective Relays

## Publications

- E. Farhangi, S. M. Barakati, "Data Mining Approach for Islanding Detection of Synchronous Distributed Generation in Micro Grid," Electrical Power Distribution Networks Conference (EPDC), IEEE Pub, 28-29 April 2015, p. 254 – 258.
- E. Farhangi, S. M. Barakati, "Computational Intelligence based techniques for islanding detection in distribution network", The 10th Power Systems Protection & Control Conference, PSPC, January 19, 20th 2016, Tehran, Iran.

## Countries of Work Experience

- Iran
- Kyrgyzstan
- Russia

## Personal Interests and Hobbies

- Cycling
- Mountain Climbing
- Playing Football and Futsal
- Swimming
- Running
- Watching movies and series
- Listening to Music