

# Malik Zaheer

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## Professional Profile

Dedicated Electrical engineer and manager with creative, innovative and versatile skills. Action-oriented with strong ability to communicate effectively with technology, executive, and business audiences. Aspiring to work in a reputable organization where I can groom my abilities, excel as a Professional and apply my skills for betterment of the set-up

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**Bachelor(BE)**      **Electrical Engineering**  
**Hamdard University Karachi (Islamabad Campus), Pakistan**

**Key Experience:** Multi-task oriented with core interest in the field of Hydropower Engineering over E&M installation/inspections and erection of Power house and switchyard equipments including but not limited to HV/ EHV circuit breakers, isolators, transmission towers/ lines, power transformers, generator, switchgears, stator windings and salient pole rotor

**CGPA: [3.03/4.00]**  
**PEC Reg#: ELECT/65013**

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## Experience

**07/2017 – Present**      **Trainee Engineer, T4JV Consultants (Mott Macdonald, ACE),**  
**1410MW Tarbela 4<sup>th</sup> Extension Hydro Power Project**

## Roles and Responsibilities:

- E&M inspection as per approved drawings
- Installation testing and commissioning of Turbine and Generator instruments (RTD's, Air Gap etc)
- Installation of Isolated phase buses and their supports
- Installation of cable Trays
- Installation of 11kV switchgear
- Complete installation of 500kV switchyard hardware
- Supervision of lighting and small power conduits in powerhouse
- Supervision of Transmission line towers and lines from Powerhouse to Switchyard
- Installation testing and commissioning of switchyard equipments (HL, LL post insulators, CT's, DS etc)
- Installation testing and commissioning of 522MVA Generator Step-up transformers
- Installation testing and commissioning of Generator double layer lap winding
- Installation testing and commissioning of Rotor (56P, 107.14rpm)
- Submission of daily, monthly, quarterly, fortnightly and annually progress reports of inspections and activities
- Review of medium voltage and low voltage switchgear
- Review of overall DC system for powerhouse and control building
- Review of detail design of Generator and turbine instruments
- Review of grounding network, lighting & small power and cable conduit system
- Review of Generator and its Auxiliary parts
- Design review of SERGI fire protection and explosion prevention system for Generator Step up transformer
- Review of Switchyard Equipment layout plan & Cross sections
- Review of Switchyard Cable trenches and overall cable routing plan b/w P-H and Control building

- Review of single line diagrams
- Review of protection schemes of Switchyard and powerhouse
- Study of Alstom relays manuals for generator, generator transformer, and Line protections

**08/2016 – 07/2017 Trainee Engineer, Voith Hydro Shanghai Ltd, 1410MW Tarbela 4<sup>th</sup> Extension Hydro Power Project**

**Roles and Responsibilities:**

- Installation of 470MW Generator and its Auxiliary Equipments (Stator, Rotor, Double lap layer Winding, Poles, Wedging, Brazing, Insulation, Connections Etc)
- Testing and commissioning of 470MW Generator and its Auxiliary Equipments ( Hi-pot, IR, AC Resistance, DC Resistance and Slot potential tests etc)
- Assembling of jumper, circuit rings and terminals (phase and neutral)
- Assembling of Filed Winding
- Assembling of damper Winding
- Assembling of Lap winding
- Submission of daily progress report of inspection and activities

**04/2016 – 05/2016 Internee, WAPDA (Water and Power Development authority), Hydel Power Station Tarbela Dam**

**Roles and Responsibilities:**

- Attached with Electrical section
- Attached with Operation section
- Attached with Protection section
- Attached with SCADA section
- Practical work at Switchyard
- Practical work at Electrical system of Tarbela Power Station
- Detail study about Turbine Governor System
- Detailed study/observation of Electrical equipment & its related accessories

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**Dissertation and Academic Project**

**Bachelor BE Smart Wheel Chair for physically disabled persons**

Focuses on wheelchair's control and movement which is based on retina detection and voice commands

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**Achievements**

- Participated in “**FUUAIST Innovatia-16**” as a **Ambassador of Hamdard University Islamabad** organized by Federal Urdu University, Islamabad (2016)
- Participated in “**Workshop on Robotics**” organized by CASE University, Islamabad
- Took part in a seminar on “**Programmable Logic Control (PLC)**” held at CINA institute (2014)Professional Development
- Participated as a “**Business Idea Provider**” at CREATE’15 (National Entrepreneurial Competition) held at Pakistan Institute of Engineering and Applied Sciences, Islamabad.
- Participated in Seminar scheduled by “**Continuing Professional Development Program (CPD)**” on “Project Management” and held at Hamdard University, Islamabad.
- Participated in “**Workshop on Robotics**” organized by CASE University, Islamabad.

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**Skills/Software Used**

AutoCAD, Arduino, Proteus, MATLAB, Multisim, Electronic WorkBench, Dip Trace, Cisco Packet Tracer, Microwind DSCH, Plc simulator (ladder logic)