

## SHAKAIB LAIQ

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### Education

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<b>UNIVERSITY OF ENGINEERING and TECHNOLOGY</b> <i>Bachelors of Science in Electrical Engineering</i>	Taxila, Pakistan 2009 - 2013
<b>INDUS SCIENCE COLLEGE</b> <i>Faculty of Science in Pre-Engineering</i>	Rawalpindi, Pakistan 2007 - 2009

### Professional Experience

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**HALCROW PAKISTAN Pvt Ltd** Islamabad, Pakistan  
Engineering consultancy firm providing innovative structural and infrastructure solutions nationally and internationally, with a focus on quality and sustainability.

**MEP Engineer** **Apr 2024 – Present**

- Executed MV/LV duct construction, cable laying, transformer/RMU installation, and street lighting works as per WAPDA standards.
- Installed water pumps, electrical rooms, and plumbing systems including valves, roof drains, and pipe connections.
- Prepared shop/as-built drawings, verified BOQs, ensured FAT/SAT, and managed progress reporting and final commissioning.

**PRO HEALTH Pvt Ltd** Islamabad, Pakistan  
Pakistan's leading provider of healthcare infrastructure, buildings construction, and operational solutions.

**Assistant Manager Electrical** **Dec 2021 – Mar 2024**

- Worked in Pro Health on MEP projects at Fauji Foundation Hospital Rawalpindi, supervising Eastridge Hospital, Foundation University Nursing College & Hostel, and Artificial Limb Center.
- Prepared and submitted shop drawings, variation orders, and item qualification e.g. LV/HV wires, fire alarm, LED lights, ELV systems as per BOQ and IFC drawings.
- Directed installation of **HVAC systems**, including AHUs, ductwork, refrigerant piping connections
- Managed **fire-fighting system installation**, covering pipework, sprinklers, fire hose reels, and pump room setup in compliance with NFPA and local authority standards
- Led testing, commissioning, and quality inspections of HVAC and fire-fighting systems to ensure operational reliability and adherence to safety regulations
- Supervised installation and erection of HT/LT panels from grid station to RMUs and transformers, maintaining close coordination with civil and mechanical teams.

**MANJAANBAZAM CADET COLLEGE SSG CONTROLLED** Harpur, Pakistan  
Cadet college operated under SSG controlled group, dedicated to academic excellence and military training at Ghazi Tarbela.

**BMS Electrical Engineer** **Jul 2018 – Dec 2021**

- Supervised and maintained electrical equipment including generators, cooling pads, and UPS systems to ensure smooth operations.
- Taught Oxford and Punjab Textbook syllabi from class 6th to 10th using diverse teaching and training methodologies.
- Served as ECS in-charge and House Tutor for cadets, supporting both academic and extracurricular development.

**VICTORY PIPE INDUSTRIES Pvt Ltd** Islamabad, Pakistan  
Leading manufacturer of high-quality pipes and fittings, committed to durability, and innovation in the construction industry.

**Production Electrical Engineer** **Mar 2016 – Jun 2018**

- Carried out erection of electrical plants, cables, breakers, magnetic contractors, and capacitor bank for power factor correction in the factory.
- Performed control wiring of various machine panels including cutters and industrial machines.
- Responsible for troubleshooting and fault analysis of electrical machines, instruments, PLC systems, and inverters.

- Studied and interpreted electrical power distribution and panel layout drawings for effective system maintenance.

**DEWAN SUGAR MILLS Ltd**

Sindh, Pakistan

It is a prominent sugar manufacturing company in Pakistan, focused on quality production and sustainable practices.

**Assistant Electrical Engineer**

**Dec 2014 – Feb 2016**

- Handled troubleshooting and fault analysis of electrical machines and instruments with timely maintenance of motors, transformers, control panels, breakers, and PLCs.
- Designed electrical layouts using AutoCAD, issued work order, under the DGM Electrical Department, and served as shift in-charge for general electrical operations.
- Acted as internal auditor for ISO 9001 in electrical department; programmed DEEP Bed filter, boiler house auto panel, and installed UPS systems across factory areas.

**TNB REMACO Pvt. Ltd**

Mirpur, AJ&K

It is a leading engineering and maintenance services provider for power and energy sectors in Pakistan.

**Junior Electrical Engineer**

**Nov 2013 – Sep 2014**

- Planned and executed preventive maintenance (monthly and annual PM) while maintaining QMS Level 3 & 4 documentation and technical reporting.
- Managed procurement of tools, spares, consumables, stock levels, and supported HR tasks including meeting coordination and documentation.

**HUBCO NAROWAL PAKISTAN**

Narowal, Pakistan

It is a combined-cycle RFO-fired facility in Punjab, delivering efficient and sustainable energy as part of Pakistan's largest independent power producer.

**Operations Engineer**

**Sep 2013 – Nov 2013**

- Handled normal and emergency operations of the complex, maintained daily operational data, and communicated with NPCC (RCC).
- Issued permits to work, prepared trouble/tripping reports, and reported failures directly to PGM.

Academic Experience

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**STEP DOWN BATTERY FOR ULTRASOUND MACHINE WHICH MAINTAINS 12v REGULAR**

Taxila, Pakistan

Developed a 12V-regulated step-down battery system for an ultrasound machine at University of Engineering and Technology, Taxila.

**Co-Researcher**

**Sep 2012 – July 2013**

- Designed and developed a step-down battery system to maintain a constant 12V output for an ultrasound machine.
- Ensured uninterrupted and stable power delivery to sensitive medical equipment, enhancing operational reliability.
- Applied circuit design principles to optimize voltage regulation and extend battery efficiency in a clinical environment

Honors and Awards

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**ACADEMIC SCHOLARSHIPS**

- Received full merit-based academic scholarship from Indus Science College Rawalpindi 2007 - 2009

**AWARDS AND CERTIFICATIONS**

- Winner of inter university speed programming contest in UET Taxila. 2011 - 2012

Additional

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- *Technical Skills:* MS Office, MATLABS, SCADA (Spartan Family), AutoCAD, MPLAB Engineering, PCB Designing and Circuit, Maximo (CMMS) Microcontrollers and FPGA, PIC18F, PIC32F, dspic33F.
- *Interests:* Building Services Design and Optimization, Electrical Load Management and Safety, BIM (Building Information Modeling) for MEP, HVAC System Design and Performance.
- *Language:* English, Urdu.