

Engr. Dr. Zeeshan Najam Khan

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As an experienced and accomplished Electrical Engineer with more than 20 years of Technical, Administrative & Academic experience of working in Electrical & Power sector, looking for an electrical engineering position to utilize these experiences in an organization to utilize my expertise in the field of electrical engineering and implement my innovative ideas and creative mind towards the area of specialization.

Able to handle multiple projects simultaneously with high professionalism and accuracy. Adept at short- and long-term electrical system troubleshooting.

WORK EXPERIENCE (FIELD)

JANUARY 2018 – TILL DATE

ENGINEERING DIVISION MANAGER, ULTIMATE ENGINEERING CONSULTANTS

Operational Tasks

1. Identifies operational problems by observing and studying system functioning and performance results; investigating complaints and suggestions; interviewing process supervisors and operators; completing troubleshooting procedures.
2. Identifies operational priorities by assessing operational objectives; determining project objectives, such as, efficiency, cost savings, energy conservation, operator convenience, safety, environmental quality; estimating relevance, time, and costs.
3. Develops operational solutions by defining, studying, estimating, and screening alternative solutions; calculating economics; determining impact on total system.
4. Anticipates operational problems by studying operating targets, modes of operation, unit limitations, monitoring unit performance.
5. Improves operational quality results by studying, evaluating, and recommending process re-design; implementing changes; contributing information and opinion to unit design and modification teams.
6. Maintains safe and healthy work environment by following and enforcing standards and procedures, complying with legal regulations.
7. Provides operational management information by collecting, analyzing, and summarizing operating and engineering data and trends.

Sales & Service Related Task

1. Search for new clients who might benefit from company products or services and maximize client potential in designated regions.
2. Develop long-term relationships with clients, through managing and interpreting their requirements.
3. Persuade clients that a product or service best satisfies their needs in terms of quality, price and delivery.
4. Negotiate tender and contract terms and conditions to meet both client and company needs.

5. Calculate client quotations and administer client accounts.
6. Provide pre-sales technical assistance and product education.
7. Work on after-sales support services and provide technical back up as required
8. Arrange and carry out product training.
9. Analyze costs and sales.
10. Prepare reports for head office and keep customer records.
11. meet regular sales targets and coordinate sales projects.
12. Support marketing activities by attending trade shows, conferences, and other marketing events.
13. Make technical presentations and demonstrate how a product meets client needs liaise with other members of the sales team and other technical experts
14. Help in the design of custom-made products, provide training and produce support material for other members of the sales team.

JAN 2002 – JAN 2013

CONSULTANT ENGINEER - SAMI & SAMI ENTREPRISE

1. Consultancy in testing, installation, and commissioning of solar panel.
2. Working on micro controller based equipment.
3. Handling professional microcontroller based projects.
4. Meeting with clients to discuss their technical and engineering needs.
5. Conducting site visits and researching technical processes.
6. Conducting external market research.
7. Providing expert advice on available solutions and technical changes.
8. Project managing the implementation of technical solutions.
9. Troubleshooting engineering and technical faults.
10. Evaluating the functionality of redesigned processes.
11. Maintaining strong client relationships.
12. Conducting after-service site visits.

TEAM LEAD SOLAR ENGINEERING - PAKHTUNKHWA ENERGY DEVELOPMENT ORGANIZATION (PDEO)

13. Nurture and develop immediate smooth working relationships with client.
14. Lead the communication and coordination meetings with client.
15. Responsible for successfully driving the production of solar projects to completion.
16. Support preparation of PC-I to PC-IV document, review and assessing responses.
17. Develop effective communicating strategy with client and negotiate financial matters.
18. Lead, coach and develop a team of high performing, highly professional, motivated and engaged client service specialists.
19. Ensure operational targets including individual, team and project targets, are met and are up to expectation of client.
20. Submit solar project schedule and promote best practice up to expectation of client.
21. Plan and organize bidding process and procurement of contractors under the directions of Higher Ups.
22. Work with and advise the Assistants regarding design considerations.
23. Excellent implement grasp of engineering concepts and principles specifically renewable power system design, mechanical design, electrical design, structural design.

24. Design projects according to design standards and understand/improve the functionality of company design tools.
25. Analyzing site data and develop engineering drawings for full scope of project design.
26. Ensuring site work according to design.
27. Create checklists for review or inspection of completed solar installation projects.
28. Monitor site activities in conjunction with the onsite technical inspector to ensure project is being complete on schedule, and within budget
29. Control and supervise day-to-day project site activities.
30. Develop and maintaining project scope, schedule, budget, and materials procurement.
31. Manage the costs and schedules of contractors working on each project.
32. Track project milestones and authorizing accounting to issue invoices upon milestone completion.
33. Supervise testing and commissioning of project upon completion.

Work Undertaken Under this Project that best illustrates Capability to Handle Assigned Task:

- 1) Name of Assignment or Project: **Solarization of Civil Secretariat Peshawar (Pilot Project Planning and Development Department, KPK)**

Positions Held: Assistant Project Manager
 Cost of Project: 1.49 Million
 Project Duration: December-2014 to June 2015
 Client: Energy and Power Department,
 Main Project Features: Designing and supervision of solar base electricity system.
 System
 Capacity is 75KW.
 Activities Performed: Site survey, Energy Audit, designing of solar system, preparation of bidding documents, contract agreement, activity base schedule and supervision site work

- 2) Name of Assignment or Project: **_Solar Energization of Various Jails in KPK.**

Positions Held: CO Team Leader
 Cost of Project: 9.5 Million
 Capacity: 1.9MW
 Project Duration: Feb-2014 to June-2017
 Client: Home & Tribal Affairs Department, KPK
 Location: All Over KPK
 Activities Performed: Project site data collection, designing, bid document preparation, bid Evaluation and supervision of solar system. Site survey, designing of solar system, Preparation of PC1, Present and approval of PC1 from P&D department, activity base schedule and supervision site work

- 3) Name of Assignment or Project: **Solarization of Existing Water Supply Scheme in Public Health Engineering Department (PHED) KPK**

Cost of Project: Approx. 6 Million
 Project Duration: Jan-2014 to June-2016
 Total Time: 16 Months

Location: All over KPK
Position Held: Assistant Project Manager
Activities Performed: Site survey, designing of solar system, activity based schedule and supervision site work.
Main Project Features: Project site data collection, designing solar water pumping system, bid document preparation, bid evaluation and supervision of solar system

WORK EXPERIENCE (ACADEMICS)

Northern University (Sept 2025 Mar 2025)

- ▶ **Associate Professor,**
Computer Science

Preston University (Feb 2025 Sept 2025)

- ▶ **Assistant Professor**
Computer Science

MNS University of Engineering & Technology (Feb 2019 -2023)

- ▶ **Associate Professor**
BPS-20
Controller Examination & Faculty Member

National University of Computer & Emerging Sciences (Feb 2018 -2019)

- ▶ **Assistant Professor**
BPS-19
Faculty Member & Administration

COMSATS Islamabad (Jan 2012 – Feb 2018)

- ▶ **Assistant Professor**
OG-2
Faculty Member & Administration

International Islamic University Islamabad (2009 – 2012)

- ▶ **Lecturer**
BPS-18
Faculty Member & Administration

National University of Computer & Emerging Sciences (Feb 2007 – Jan 2009)

Lecturer
Eq to BPS 18
Faculty Member & Administration

SUIT Peshawar (March 2006 – 2007)

▶ **NWFP UET Peshawar (Sep 2004 – 2006)**

Lecturer
Eq to BPS 18
Faculty Member & Administration

▶ **GIST Peshawar (Jan 2004 – Aug 2004)**

Lecturer
Eq to BPS 18
Faculty Member

▶ **Iqra University, Peshawar (Sep 2003- Dec 2003)**

Lecturer
Eq to BPS 18
Faculty Member

▶ **KIT (Feb 2002 – Sep 2003)**

Lecturer
Eq to BPS 18
Faculty Member and Examination.

▶ **PCE (Aug 2001 – 2002)**

Lecturer
Eq to BPS 18
Faculty Member and PEC affairs.

EDUCATION

2017

PH.D. ELECTRONICS ENGINEERING, ISLAMIC INTERNATIONAL UNIVERSITY,
ISLAMABAD, PAKISTAN.

Specialization: Power Electronics and Renewable Energy.

CGPA: 3.75 80.33%(1st Division)

2009

M.SC COMPUTER SYSTEMS ENGINEERING,
UNIVERSITY OF ENGINEERING & TECHNOLOGY, PESHAWAR, PAKISTAN.

Specialization: Computer Systems Engineering

CGPA: 3.48/4.00 86.75% (1st Division)

1998

B. SC ELECTRICAL AND ELECTRONICS ENGINEERING (WITH HONORS)
UNIVERSITY OF ENGINEERING & TECHNOLOGY, PESHAWAR, PAKISTAN

Specialization: Power

CGPA: 3.34/4.00 83.5% (1st Division)

1999

POST GRADUATE DIPLOMA - AEROSPACE INSTITUTE, ISLAMABAD,
PAKISTAN

1992

HIGHER SECONDARY SCHOOL CERTIFICATE (HSSC) ISLAMIA COLLEGE,
PESHAWAR, PAKISTAN

Subjects: Pre-Engineering

Marks: 77%(1st Division)

1990

SECONDARY SCHOOL CERTIFICATE (HSSC) UNIVERSITY PUBLIC SCHOOL,
PESHAWAR, PAKISTAN.

Subjects: Science

MARKS: 80% (1ST DIVISION)

SKILLS

SOFTWARE SKILLS

- Silvaco Suite (Athena and Atlas)
- Origin Pro
- OPNET IT Guru
- OPNET Modeller
- NS2 Simulator
- Electronics Workbench
- Proteus
- MATLAB (SIMULINK)

PROFESSIONAL SKILLS

- Proficiency using AutoCAD, Visual Basic, and C++
- Knowledge of production processes, including handling of raw materials and quality control
- Experience solving problems in real-world applications
- Extensive understanding of electronics, including computers
- Ability to work as part of a team to develop and implement systems, as well as troubleshoot and solve complex technical problems
- Reasoning, analysis, and critical thinking
- Strong computational skills
- Good judgment
- Experienced team leader

RESEARCH INTEREST

- Energy Efficient Electronics
- Energy Conservation And Auditing
- Photo Voltaic Cells
- Micro Grid
- Wireless, Wireline And Adhoc Networks

RESEARCH PAPERS

► PUBLISHED (Impact Factor)

1. Z. N. Khan, S. Ahmed and M. Ali, "Effect of thermal budget on the Electrical characterization of atomic layer deposited HfSiO/TiN gate stack CMOS structure." PloSone, vol.11, no. 8, 2016, p. 0161736. (ImpactFactor:3.23).
2. Z. N. Khan, S. Ahmed and M. Ali, "Electrical Characterization of Post Annealed Ultrathin TiN Gate Electrodes in SiMOS Capacitors." Advances in Materials Science and Engineering vol. 2016, 2016, Article ID:3740517, 4pages. (ImpactFactor:1.010).
3. Z. N. Khan, S. Ahmed and M. Ali "Properties and Comparison of High K-Dielectric Material: A Review Paper" 3rd International Conference on Nano-Science and Nano-technology, Colombo, SriLanka, 2016. (Oral Presentation; Proceedings underway).

4. M. Ali, Z. N. Khan, Y. Tashfain, W. Ahmed, S. Alam and S. Ahmed, "Effect of design variants on the energy efficiency of sub 16nm MOS." (International Journal of Electronics).
5. Z. N. Khan, S. Alam, M. Ali and S. Ahmed, "Charge Transient Behavior and Spectroscopic Ellipsometry Characteristics of TiN/HfSiO_xMOS capacitors." (EP JAP)
6. Mahmood, Anzar, I. Khan, S. Razzaq, Z. Najam, Naveed A. Khan, M. A. Rehman, and Nadeem Javaid. "Home appliances coordination scheme for energy management (HACS4EM) using wireless sensor networks in smart grids." *Procedia Computer Science* 32 (2014): 469-476.
7. Mahmood, A., A. Ismail, Z. Zaman, H. Fakhar, Z. Najam, M. S. Hasan, and S. H. Ahmed. "A comparative study of wireless power transmission techniques." *Journal of Basic and Applied Scientific Research* 4, no. 1 (2014): 321-326.
8. Ali, S., M. Naeem, A. Mahmood, S. Razzaq, Z. Najam, S. Ahmed, and S. H. Ahmed. "Methods to Regulate Energy Consumption in Smart Homes." *J Basic Appl Sci Res* 4, no. 1 (2014): 166-172.
9. Najam, Z., and M. I. Khan. "Concentrated solar power: an overview." In *Proceedings of the International Conference on Power Generation Systems Technologies*. 2011.
10. Parameters Affecting Underwater Channel Communication Performance Sheeraz Ahmed, Malik Taimur Ali Saqib Shahid Rahim, Zahid Farid, Owais Amanullah Khan, Zeeshan Najam, Digital Object Identifier (DOI) : 10.14569/IJACSA.2018.091050
Article Published in International Journal of Advanced Computer Science and Applications (ijacsa), Volume 9 Issue 10, 2018
11. "Perspectives of Water Level Measurement in Plastic Pipes using Wideband Horn Antenna" by Zeeshan Najam, Zahid Farid.
12. Low Cost Synthesis and Characterization of Silver Nanoparticles for Diverse Sensing Applications" by Zeeshan Najam, Sarah Ahmed.

FUNDED AND NON FUNDED PROJECTS SUPERVISED

Over 50 Projects Supervised till date:

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| ▶ Wind Modeling. | ▶ Micro Grid Modelling. |
| ▶ Micro Grid Modelling. | ▶ Integration of Hydel and Solar Modules. |
| ▶ Wireless Power Transfer Through Micro Wave. | ▶ Micro Hydel on a Canal Water. |
| ▶ Wireless Power Transfer Through Magnetic Resonance LASERS. | ▶ Real Time Objects Tracking using |
| ▶ WIMAX Module Integration with Wireless LAN | ▶ Position Control of Antenna through |
| GSM | |
| ▶ Line Following Robot for Security (with Image | |
| ▶ Capturing). Technology. | |

LANGUAGES

- | | |
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| ▶ English (Read, Spoken, Write)
[IELTS (7.0), TOFEL (227).] | ▶ Pusto (Spoken) |
| ▶ Urdu (Read, Write, Spoken) | ▶ Hindkoo (Spoken) |
| ▶ Punjabi (Spoken) | |

WORKSHOPS AND SEMINARS

1. Participated in an International conference on RENEWABLE ENERGY TECHNOLOGIES.
2. Participated in Training Workshops on WCDMA/HSPA TECHNOLOGY.

3. Participated in International Workshops on Evolution of WIRELESS STANDARDS.
4. Attended a Seven Day workshop on SRS-GIS TECHNOLOGY.
5. Participated in Faculty Development Program in Nu FAST.
6. Participated in Faculty Development Program in UET.
7. Attended a Symposium on QUALITY EDUCATION.
8. Attended a Workshop on PROPOSAL WRITING.
9. Attended a Training Workshop on Traffic Laws by ITP.

REFERENCES

Dr Ahmed Shuja
Executive Director CAEPE, IIUI, Islamabad

Dr Sarah
Assistant Professor, FUUAST, Karachi

Dr Ifzaal
Joint Secretary, Ministry of Defence, Rawalpindi.

Engr Javed Iqbal
Project Director, Civil Works, Bahria Town, Rawalpindi.