

Muhammad Hafeez Abbasi

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Profile:

Energetic, dedicated Electrical Engineer with strong interpersonal skills. Master's Degree in Electrical Power Engineering with considerable field, research, and academic experience. Proven ability to work effectively with people of various ages, cultural backgrounds, and socio-economic statuses. Long-time interest in Renewable Energy, Project Management, Power Industry and Training. Proven adaptability to crisis situations through working as Project Engineer.

Work Experience: (Total 8 years)

- **Saudi Electric Services Polytechnic (SESP), Riyadh, Saudi Arabia working as Technical Training Consultant / Lead Trainer (Solar) Nov 2016~Present—www.sesp.edu.sa**

As Technical Training Consultant

- Lead the plan to certify SESP as certified training provider by KACARE for Solar PV designer & Solar PV installer training programs.
- As approved instructor by KACARE, performing training for Solar PV Designer and Installer program
- Responsible for liaising SESP with potential partners to establish new training programs.

As Trainer involved with apprentices having majors for Solar Energy, Power System Dispatching (PSD) & Electrical Smart Metering

- Working on GE E-Terra (Energy Management System) to train PSD trainees.
- Involve in establishing Solar Energy based training and workshops at SESP locations.
- Worked on AEC Addad-4 Smart Meter which is currently in use with SEC.

- **Nokia Solutions & Networks (NSN Saudi), Riyadh, Saudi Arabia working as Solutions Architect (Energy) / Project Engineer Aug 2015~Oct 2016**

Served as a bridge between the business and technical communities, speaks each group's language and understands each group's priorities. Prepare proposals, responsible for conceiving and communicating the overall design of the solution and acting as a thought leader on an assigned product and product space.

- Responsible for the development of Nokia Al-Saudi's Renewable Energy sector, focused on strategies to mitigate existing technologies with Nokia's portfolio.
- Worked on Riyadh Metro project for development of Building Integrated Solar PV systems (BIPV), 3.88MW of PV plant. Closely works with main contractor for system design and bidding.
- Worked on 86KW Solar PV system for Park and Ride project in Riyadh Metro. Responsible for submission of complete technical and commercial proposal.
- Successfully initiated a consortium with Al-Asasyah for participation in SEC Independent Power Plant Solar (IPP) projects
- Part of Nokia Academy Team, responsible for delivering state of art trainings in Solar PV.
- Took the lead in successfully starting collaboration with King Saud University (Research Centers) i.e. Prince Sultan Advance Research institute (PSATRI) and Sustainable Energy Technologies Centre (SET). Main aim for these collaborations is to deliver Advance RnD based trainings to the clients.
- Designed and bided on Smart Meter solutions by highlighting Nokia Al-Saudi ambition for Energy. Negotiating with Global Smart Meter companies for potential partnership.
- Continuously developed professional and project management skills by participating in-house trainings for PMP.

- **King Saud University (KSU), Riyadh, Saudi Arabia worked as Researcher and Technical Support Engineer in Electrical Power Engineering at Department of Electrical Engineering. Jan 2012~ Jun 2015**

As Technical Support Engineer part of TaQati and SunShot project for the development of Renewable Energy farm at KSU. Details of my work are as follows.

- Part of commissioning team for CSP based Renewable Energy Farm project that includes Heliostat Field and Solar Tower for Electricity Generation. Further this project is now taken up by Saudi Electric Company (SEC).
- Performed Economic Studies using PVSyst for Solar PV farm.
- Worked with internal departments of the Riyadh Techno Valley and coordinated with Taqati engineers regarding testing and planning procedures.
- Participated in designing and field-testing of plant.
- Performed training in Grid Integration for employees of Taqati and KSU
- Developed procedures for proper installation and performed qualification tests for commissioned PV plant.

As Researcher worked with Electrical Engineering Department to give lab demonstration for undergraduate engineering students. Subjects covered are Electric circuits, Electronic circuits and CAD designing.

- Developed Training manuals for undergraduate engineering students in the field of Solar PV.
- Trained engineering students for evaluating and testing HV equipment.
- Assist chief supervisor in research activities and develop research papers based on experimental data.
- Performed offline condition monitoring using Tan Delta Technique and Online PD testing for power cables.
- Performed basic qualification tests for LV and MV Transformers at KSU High Voltage laboratory.

- **Trojans HQ worked as Application Engineer / Assistant Manager (Electrical) Dec 2010~ Jan 2012**

Trojans being Reseller for Zuken E3 & Zuken Cadstar in Pakistan & Middle East.

As Application Engineer I provided technical application support in Zuken E3 & Zuken Cadstar for Technical Departments of Trojans. I was certified AE for Zuken in Middle East & Pakistan.

- Developed Schematics for Electrical & Hydraulics (Piping, Pumps, Switch Gear, Panel Design & Cable layouts) & MIL Spec drawings using Zuken E3 in order to cover customer requirement.
- Provided pre-sales support (product presentation & demo) and after sales services for Zuken in Pakistan & UAE. Most Notable clients were ABB Dubai (UAE), PowerTech (UAE), ABB Pakistan, Schneider Pakistan, SUPARCO & NRTC.
 - Coordinated with Zuken's Singapore technical & marketing team for various clients of Zuken globally
 - Resolved issues in timely manner to retain customers trust.
 - Prepared project's technical, financial proposal & participated in various tender openings.
 - Reviewed project activities and prepare testing and operational reports.
 - Liaison with the marketing & sales staff for future business development..
- **As Assistant Manager I** worked on projects related to Defense RnD. Most Notable were
 - Static Pop-Up Targeting System (SPTS).
 - Designing of Schematic's for Auxiliary Electronic Box & cable assembly using MIL Spec standards.
 - Commander Console & Remote communication modules for Commanders.
 - Part of 6 member team which designed & developed 40 systems in a record span of 2 months.
- **Pakistan Telecommunication Company Limited (PTCL)** worked as **Internee July ~ Sep, 2008 (8 weeks)** During my Internship under General Manager WLL & GIS planning. I received hands on experience on RF planning, NSS, Link Budget, Familiarity to Asset 3G tool & Map Info, Traffic Analysis.

Professional Skills:

Project Management, Solar PV, AMI Smart Meter, PsCAD, PV Sol, PVSyst, PV SketchUp, SAM, Matlab, MS Office, Presenter & Trainer, Application Engineering

International Professional Training:

- Certified SEC Solar PV Designer and Installer
- Completed 36 Hours training for Project Management Professional (PMP) Certifications from Bakkah.
- Completed 16 hours Training about **Zuken (E3 & Cadstar)** from **ZUKEN (Singapore) 25 April ~ 29 April 2011** (Training was aimed for Application Engineers that how to evaluate software, technically for various prospects)
- Completed 72 hours AutoCAD Design Engineer Training Course from Advance Manufacturing Institute (AMI KSU, Saudi Arabia) 2 Mar ~ 8 Mar 2014
- Completed 36 hours Chip Designing (FPGA based Digital Design using Verilog HDL) from Skill Development Council, Islamabad

Publications:

- **Modeling and Control of Grid Connected PV System for Improved Dynamic Performance** (published at "Journal of Optoelectronics and Advance Materials (ISI and Elsevier cited)")
- **Cascaded Control Scheme of Grid tied PV Inverter** (published at "6th IEEE International Renewable Energy Congress (IREC 2015)", Sousse, Tunisia.
- **Design phases for Grid connected PV System** (published at "3rd IEEE International Conference on Renewable Energy Research and Application (ICRERA 2014)", Milwaukee, USA.
- **PSO with Gompertz increasing inertia weight** (published in "8th IEEE Conference on Industrial Electronics and Applications (ICIEA 2013)", Melbourne, Australia.

Independent Courses

Solar 101 by edX, Power System Operation and Control, Power System Transients, Power System Protection, Reliability & Evaluation in Power Engineering, High Voltage Test Techniques, Selected Topics in Power Systems (Smart Grid)

Honors, Awards and Achievements:

- Awarded Fellowship for MS in Electrical Power Engineering by King Saud University, Saudi Arabia.
- Organizer 3rd Electrical Safety Experts Symposium ESES 2014 Riyadh KSA.
- Organizer Water, Electricity Power Generation Forum WEP 2014 Dammam, KSA.
- Certificate of Merit (Training for Zuken E3) Zuken Singapore.
- Certificate of Recognition (Pakistan Student Congress 10 IEEE) UIT Karachi.
- Certificate of Recognition (Pakistan Student Congress 09 IEEE) NUST Islamabad.
- Scholarship Holder during Engineering Studies.
- Best Project Awards for 5 years: Pakistan International Public College, Abbottabad.
- Best Day Scholar: Pakistan International Public College, Abbottabad.

Affiliation and Volunteer Activities:

- Member Institute of Electrical and Electronic Engineers (**IEEE USA**) Graduate Student Member (**IEEE # 90834716**)
- Member IEEE Power and Energy Society, Member (**IEEE # 90834716**)
- Saudi Council of Engineer (SCE).
- Pakistan Engineering Council (**PEC**) Registered Engineer (**Elect/31513**).
- Member IEEE Smart Grid Society.
- Member Smart Vehicle Society.

Education:

MSc Electrical Engineering (Power) (2012-2014)	King Saud University, Riyadh Kingdom of Saudi Arabia http://www.ksu.edu.sa/	Course work : 79% B/1 st Div Thesis with Excellent Grade Fellowship Holder
BSc Electrical Engineering (2004- 2008)	Islamic International University Islamabad ,Pakistan	CGPA : 3.57 / 4 80% A/1 st Div Position : 3 rd in Electrical Engg Department

Interests:

Solar PV Design, Volunteering, Swimming, Cricket, Squash, Traveling, Hiking.