

Muhammad Saqib

Electrical Engineer | Solar Engineer | Electrical Estimator |

Motivated, teamwork-oriented, and enthusiastic Electrical Engineer with a history of working in the renewable energy industry. Skilled in designing low voltage MSB, distribution boards and Solar distribution boards (On-grid), power quality testing and secondary injection testing for grid boxes, I am looking for a position within an organisation where I can utilise my technical and project management skills, with the opportunity for professional career growth.



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WORK EXPERIENCE

Technical Consultant

NHP Electrical Engineering Products Pty Ltd, Victoria, Australia

11/2019 – Present

NHP Electrical Engineering Products Pty Ltd is one of the biggest manufactures and electrical products distributors in Australia and New Zealand.

- Assist clients with technical troubleshooting on electrical engineering products.
- Provide estimating support and quotations for technical projects, including customization of specific drawings.
- Assist with delivery scheduling to meet customer project timelines.
- Interpreting and reviewing engineering drawings and specifications relating to electric equipment and its use using CAD software tools to ensure they meet appropriate standards and customer needs.
- Liaise with supply chain and other internal departments to manage and organize resources to ensure the switchgears and other electrical products requested or their equivalents are readily available to meet the customer needs.
- Research technical datasheets for new and existing electrical engineering products to provide equivalent or alternative solutions.
- Liaising with the internal and external stakeholders of the company.
- Provide feedback to develop technical support processes, with a focus on electrical product documentation.
- Investigate complaints from customers, evaluate problems and recommend solutions.
- Perform duties while coordinating with other team members and ensuring that company standards are met.
- Work with managers to ensure that queries are completed on time and within budget, satisfactorily.

Electrical Engineer Intern – Solar

Dara Switchboards, Victoria, Australia

08/2019 – 11/2019

Dara Switchboards manufacture customised switchboards for the Australian electrical industry.

- Designed, developed and supervised the manufacture of PV distribution boards including master-slave combinations for the grid protection.
- Prepared Electrical Switchboards project drawings in compliance with Australian Wiring Rules (AS/NZS 3000), Low-voltage switchgear and controlgear assemblies General rules (AS/NZS 61439) and Victorian Service Installation Rules.
- Prepared quotation for solar distribution boards for high profile clients such as PowerCor, Clean Technology Partners and Ausnet. Preparation of tender/concept drawings for enquires.
- Prepared and maintained CAD library and technical resource libraries.
- Helped improve the new Engineering software designed to reduce estimation and design times for electrical products whilst maintaining complete accuracy and standards.
- Assisted material planning and production planning departments to manufacture the products within given time frames and verifying supplier lead-times for a number of projects within short time frames.

- Performed final power quality testing, secondary injection testing and prepared factory acceptance test sheets (FATs) site to ensure all the parameters are according to DNSP requirements.

EDUCATION

Master of Engineering Science – Electrical
Swinburne University of Technology, Melbourne
02/2017 – 12/2018
CGPA 3.75

Bachelor of Electrical Engineering – Power
Air University, Islamabad
09/2012 – 06/2016
CGPA 3.67 – Silver Medallist

PROJECTS

- ✓ Design of solar distribution grid boxes including master-slave combination for multiple projects ranging from 40kVA up to 0.576MVA for renewable energy clients such as Clean Technology Partner, Origin Energy, Vellocet Clean Energy, Kuga Australia, 5B and Envirogroup.
- ✓ Design of 400A CT chamber and meter panel board.
- ✓ Assembling and fitting of PowerCor capacitive balancing units for electricity grid.

TECHNICAL SKILLS

Hard Skills

Low Voltage Designs, Power Distribution, Solar Renewable Energy, Main Switchboards, Modular Switchboards, Meter Panels, Distribution Boards, Electrical Design, Electrical Drafting, Power Quality Testing, Secondary Injection Testing, SCADA, PLC, HMI, Automation Systems.

Tools

AutoCAD, Streamineer, Solidworks, PSSE Siemens, MATLAB, PowerWorld, Labview, Proteus, MultiSIM, Microsoft Word, Microsoft Excel, Microsoft Powerpoint

Languages

C++, OOP, Assembly Language, VHDL, PLC Ladder, CSS, HTML, PHP, JAVASCRIPT, MYSQL, JQUERY

SOFT SKILLS

Effective Communication

Teamwork

Problem Solving

Ability to Influence

Challenging

Self-management

Attention to Detail

Customer Service

PROFESSIONAL MEMBERSHIPS

Engineers Australia
Graduate Engineer (GradIEAust)

Golden Key Int'l Honour Society, Australia
Honour Student Member (Ranked Top 15% Candidates)

IEEE Victorian Section
Graduate Student Member

Pakistan Engineering Council
Registered Engineer

VOLUNTEER EXPERIENCE

Student Mentor Program

Swinburne University of Technology

08/2017 – 11/2018

- ✓ Successfully mentored two international students each semester during the tertiary studies.
- ✓ Assisted students with their queries related to their courses, accommodation, part-time jobs, assignments, and culture.
- ✓ Introduced STEM programs to each mentee as their promising career and inspiration.

Communication head of Cultural Society

Air University

02/2014 – 06/2016

- ✓ Effectively organized society's events whilst ensuring the safe work environment.
- ✓ Helped society members and students with their general enquires and membership perks.
- ✓ Encouraged students to join the society by explaining the benefits of society and promoted to grow society.

CERTIFICATES

Siemens and FATEK PLC & HMI Training

2014

Web Designing and Development

2011

ACCOMPLISHMENTS

2018 **Swinburne Student Achievement Award from Swinburne University Vice Chancellor**

2018 **Golden Key International Honour Society Award Top 15% Candidates**

2016 **Postgraduate International Vice Chancellor Scholarship Award**

2016 **Silver Medal for High Academic Performance Air Chief Marshal Award**

2016 **First Position at Air University Open House 2016 Award**

REFERENCES

Available on request.