WALEED AKHTAR KHAN

Electrical Engineer (PEC Registered Member)
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Objective

To acquire a challenging career with a solid company utilizing the opportunity to offer proven and developing skills within the company.

Academic Background

Bachelors of Science in Electrical Engineering (Power)
Comsats Institute of Information Technology, 2017
3.44/4.00 (83.45%)

HSSC (Pre-Engineering)
F.G Degree College for Men Wah Cantt, 2013
759/1100 (69%)

SSC (Science Group)
Sir Syed College Wah Cantt, 2011
823/1050 (78.38%)

Research Interest

- **Renewable Energy Sources:**
  To design a system that utilize one or more renewable energy sources to produce maximum electrical energy.

- **Electrical Power Systems/ Energy Management:**
  Research on Control and Management of Electrical Power in electrical systems to obtain maximum efficiency. Design an efficient energy management system.

Pre-Professional Experience

Internee, Pakistan Ordinance Factories (POFs), Wah Cantt, Pakistan
(Jul 25, 2016 – Sep 02, 2016)

Achievements and responsibilities:
- Making surveys of different laboratories and note down power parameters.
- Survey of Gas Power Station, Thermal Power Station and 11KV grid station.

- Making of reports on daily basis and submit a final report in the end of session.

Internee, IBN-E-SINA Institute of Technology Government of Pakistan, Islamabad, Pakistan
(Jun 17, 2016 – Jul 25, 2016)

Achievements and responsibilities:
- Making surveys of different laboratories and note down power parameters.
- Convert the power system on simulation software for better control.
- Learned about electrical protection schemes, earthling and grounding techniques.
- Informing supervisor about update in power in/out flow and submit a final report in end of session.

Skills

Technical Tools
- Proteus (Schematic Designing)
- Math Type (Equation Writing)
- MS Office (Word, PPT)
- MS VISIO (Block Diagrams)
- ETAP (Electrical System Designing)

Programming Languages
- GMWIN4 (PLC Coding)
- EMU8086 (Verilog HDL)
- Turbo C (C, C++)
- MATLAB

Academic Projects

Final Year Project:

- Title: **Power Generation by Utilizing Gravitational Force.**
- Description: Design and modification of Jacobs Wheel to extract electrical energy utilizing the water pressure. The project consists of two interconnected parts in which one part is always out of balance, when unbalanced part tries to balance itself due to gravity the second part gets out of balance and the circle continues. This balancing and unbalancing is converted into rotational motion by using gear box. Then rotational motion is used to produce electrical energy by using DC generator.

Semester Projects:

- Digital Clock with Alarm by using Micro Processor.
- Controlling Home Appliances using IR Remote.
- Traffic Light Control using 555 Timer.
- Street Light Control Using LDR.
- Electricity Bill Calculator in C language.
- Rectifier (AC Voltage into DC Voltage Source).

Achievements

- Secured second prize in Business Idea Competition held at COMSATS Institute of Information Technology, Dec 2016.

Training & Courses

- Participated in seminar of PLC & SCADA Professional at SINA Institute of Networks and Aesthetics, Oct 2017.

Research & Publications

Muhammad Jaber, Adil Khan, **Waleed Akhtar Khan**, "**Robust Nonlinear Geometric Angle Tracker for Aero Pendulum",** Imperial Journal of Interdisciplinary Research (IJIR), Vol-3, Issue-6, 2017.

References

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