

AHMED NAFEA

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OBJECTIVE: Applying for Electrician position

SUMMARY OF QUALIFICATIONS:

- Knowledge of basic electrical concepts and electrical designs.
- Working experience with **Computer Aided Design tools** such as **AutoCAD**.
- Understanding of signal processing and the application of algorithms to digital hardware.
- Knowledge of **power utilization equipment and application considerations** including the various types of switchgear, protective relays, breakers, transformers, motors, and generators.
- **Developing reports** such as General Conditions Items, labor, safety, change order logs and quality control.
- Experience programming **FPGA** and able to read wiring diagrams and circuit/schematic diagrams.
- Technical skills include Microsoft **Excel, Word, PowerPoint, Access, Visio** and professional knowledge of **Matlab, C++, C, Simulink, and FPGA Design, AutoCAD Electrical 2010, virtual Basic,**
- Network Problems associated with the LAN/WAN enterprise.
- Basic knowledge in Familiarity with National Electric Code.
- Excellent analytical, writing, presentation and interpersonal skills.
- Microwave and RF theory and Digital communication theory.
- Lean (5S and Kaizen) and manufacturing experience.
- Feedback and Control Systems, Signal Processing, Wireless Analog and Digital Communications.

EDUCATION:

UNIVERSITY OF COLORADO – DENVER, CO

M.S, Electrical Engineering, Communications and Signal Processing

Expected 12/2013

GPA: 3.34

UNIVERSITY OF TECHNOLOGY-BAGHDAD, IRQ

B.Sc. Electrical Engineering, Power System

Graduated 10/2006

GPA: 3.32

Relevant Projects:

- **Forward Error Corrections** - using Reed-Solomon theorem in Optical Networks (Using Matlab) (Digital Communications System).
- **VLSI Circuits Design and Simulation** – apply 2-graph to generate symbolic function of network contain 2 OP-Amps by using (Matlab & Orcad), Apply Tableau method to the (high Q-Band reject) to obtain the gain using Matlab, Apply 2-graph modified nodal formulation to compute the sensitivity of V out.
- **Independent component analysis (ICA)** - separates an observed set of signal mixtures into smaller sets of statistically independent component signals, or source signals.
- Designed and implemented a 16-bit RISC processor using Logic works and Verilog.
- **Digital Signal Processing** – Design lowpass Butterworth digital filter by using Kaiser Window using **Matlab**.

- **Biomedical Imaging** – Using **Matlab** Ultrasound Field II simulation Software, **Beam forming of Ultrasound phased array System Using Matlab, Implement backprojection algorithm of the Image with elliptical object in center using Matlab.**
- **Electrical Installations in Multi-Story Buildings** – design lighting, emergency generators, outlets, Alarm System, and grounding. (**Senior Design Project-B.Sc.**).
- **Electronics** - Development of Generalized Photovoltaic Model Using **MATLAB/SIMULINK.**

EXPERIENCE:

Image projections west, USA INC, Denver 10/2012–04/2013

Manufacturing Process Intern Engineer

- work with equipment designer and manufacturing manager to develop a cost effective and working production process of the new product
- Have to set detailed specifications and implement production plans.
- Keep conducting tests on systems for efficiency and accuracy till a quality and cost effective production process is implemented successfully.
- Oversee process design projects and make sure the projects are completed on time.
- Ensure that throughout the manufacturing process, they follow the financial budgets.
- Designing new processes, they have to improve the present manufacturing or production processes to boost productivity, quality, and profitability for a company.
- Research and purchase new manufacturing technology, work in collaboration with the engineering department to better production equipment functionality.
- Implement the transition of new technology to make sure production continues successfully without any hassles.

Orascom telecom, Baghdad, Iraq 04/2005-06/2006

Technical Service representative

- Answering all customers questions and gives them all details about all company's promotions and deal with Troubleshooting.
- Helping and solving the costumer's problems if they have any error in their lines.
- Explaining and explicating to the new customers the easiest way of how to use their line.
- Answering all calls with formal presentation and ending the call within short period of time.

AI- Marifa for Computer's Services and networks 06/2004-02/2005

Computer Maintenance and sales Specialist

- Handled the tasks of promoting sales to existing clients.
- Responsible for identifying and checking client's goods and services.
- Handled the tasks of solving technical problems related to the supplied equipments.
- Communicated with clients after sale to provide further ongoing support.
- Estimated installation charge and maintained equipments and services.
- Responsible for delivering sales product to the concerned customer.
- Handled the tasks of creating and maintaining reports like tech administration reports, certifications and sales report.
- Worked with commercial sales team to provide quotations and timelines.

Additional Experience: More details will be provide at interview time

L3- communications, Arabic **Linguist with U.S Military** 07/2006-05/2008

Global Linguist Solutions, LLC, **Civil Linguist with US military** 05/2008-06/2009

Tatitlek Management Inc., **Culture Adviser for U.S Army** 09/2009-12/2009