MUHAMMAD BASAT

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O B J E C T I V E

To work in the organization where I can enhance my skills and apply my knowledge to benefit the organization and learn the requisite skills to further augment my abilities.

QUALIFICATIONS

Certificate/ Degree	Year of Passing	Board/ University
▪ ELECTRONIC ENGINEERING(BS) **(CGPA 3.09/4)**	2015	International Islamic University Islamabad
▪ INTERMEDIATE (Pre Eng.) **(74%, 1st div)**	2011	Govt. M.Z.A Khan Degree College Wazirabad.
▪ MATRIC (Sciences) **(69%, 1st Div.)**	2009	Govt. Muslim Awami High School Sambrial.

EXPERIENCE

Lodhia Gypsum Industries (Pvt) Ltd.
After completing my tenure at National Institute of Electronics (NIE), I got myself a chance to work in Lodhia Gypsum Industries. I have taken up numerous tasks as ordered by the management and completed all of them. Working in this organization has helped me learn a lot and it has made me creative and hardworking. From installation of the plant to performing troubleshooting on issues occurred during production has helped me a lot in my professional career. I have worked as Site Engineer and right now I am the Plant In-Charge. I have good command on following tools.

S7-200, S7-200 Smart	HMI
WIN CC	King View

Plant In-Charge
After taking a good look at my performance as a Site Engineer, management upgraded my role to Plant In-Charge. Following are the tasks I performed as Plant In-Charge.
Calculation of Quantity of Raw Material
Quality check of Raw Material
Check and balance of production Quality
Wastage calculation as per production quantity
Calculation of cost per gypsum board
Calculation of material used for production per board
Making Roaster for shift of Employees
Performance Evaluation of Employees
Recourse availability check on daily basis

Site Engineer
After assessment of my performance during Plant installation, management offered me the role of Site Engineer which I accepted and performed following duties.
Check and balance of production Quality
Quality check of chemicals during Process
Quality check of Powder, Foaming and other ingredients during Process
Electrical and Mechanical Fault Trace during production
Troubleshooting and Maintenance of Gypsum Powder Plant
Troubleshooting and Maintenance of Lamination Plant

During Plant installation I performed following tasks.
PLC-S7-200 Programming, Troubleshooting and Maintenance

- PLC Panels wiring and power installation
- Different types of sensor installation like Proximity, Temperature, Level, and Weight Sensors etc.
- High and low Power Inverter installation and complete understanding of their parameters

- AC & DC Power Supply Installation
- ATS Panel designing and High Power cables (300 mm) installation
- Lux Punching of High Power Cables
- High and Low Power AC motor connection wiring
- Fabrication of all machines
- Operation and Maintenance of Lath Machine
- Mechanical assembling of Gypsum board plant machines

INTERNSHIP AND TRAINING

- Four months paid Internship At National Institute of Electronics Islamabad (NIE) paid by Pakistan Software Export Board (PSEB). (September 2015 to January 2016)
  - ✓ Worked in Automation and Control Engineering Lab (ACEL).
  - ✓ Worked on **Switch Mode Power Supply** (SMPS).
  - ✓ Rectified 220V AC into 310V DC by using High Power Bridge Rectifier.
  - ✓ Design Buck Converter by using Power IGBT.
  - ✓ Design LC filter to filter the output of Buck Converter.
  - ✓ Design Feedback of the supply by using Pulse Width Modulation (PWM).
- Two months Training on PLC and SCADA at Sina Institute of Network and Aesthetics (SINA).
  - ✓ One month Training on S7-200.
  - ✓ One month Training on SCADA's Software.
  - ✓ One month on Third Module Security.
  - ✓ One month on fourth module Connecting Networks.

PROJECTS AND SKILLS

- 1.DC Supply 2.Audio Amplifier 3.Fast Finger Presser 4.Car Assembly Line 5. IIU3300 (Chat Device) 6.AVR Kit 7.Digital Speedo Meter 8. Line Follower Robot
- Design and Development of A Variable Frequency Drive for Induction Motor Using Advanced Techniques.(FYP)

Induction motors are the most widely used motors industrially and commercially. 95% of the motors installed in industries are induction motors. Various applications require precise speed control, this project is based on research of designing and developing a prototype which would produce the desired results. The main focus of this project is to target the efficiency of the overall system and significantly reducing "Total Harmonic Distortion" by replacing the traditional square wave inverters with Multi-Level inverters.

1. Microsoft Office (Word, Excel, Power point).
2. Micro WIN 3. Packet Tracer. 4. Proteus. 5. MATLAB 6. Lab View
7. Win TR 8. ARES

AWARDS

- BS (Electronics) fully funded by Prime Minister ICT R&D Scholarship.
- Got 2nd Position in Intermediate from Govt. M.Z.A Khan Degree College Wazirabad.

MEMBERSHIP/ACHIEVEMENT

- "Vice President" FQC (Fahmul Quran Council I.I.U.I)
- Organizer at 2nd International Conference on Power Generation System & Renewable Energy Technologies (PGSRET) 10-11 June, 2015.
- Organizer at NWAE Device Design & Process Characterization (2nd-3rd December, 2013).
- Participant of SOFTECH'15 Final Year Project Competition Organized by National University of Computer and Emerging Sciences Lahore (FAST).
- Participant of MCOT Final Year Project Competition Organized by Comsat Institute of Information Technologies Abbottabad (CIIT).
- Member of Student Sports Gala I.I.U Islamabad.
- University Football Team Vice Captain.

LANGUAGES

- English (Communication, Written and Presentation Skills).
- Urdu.

HOBBIES

- Playing Football
- Reading Productive books.
- Socializing with family and friends.
- Organizing and Managing Events.

REFERENCE

- Reference will be furnished upon request.