Tashfeen Elahi

- **Electrical Engineer**
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SUMMARY

Exceptionally creative and resourceful Electrical Engineer to explore myself fully and realize my potential in Engineering, Maintenance and Manufacturing, where in my technical skills and experience is asset to the dynamic business needs. As well as able to handle multiple projects simultaneously with high professionalism and accuracy.

EDUCATION

COMSATS Institute of Information Technology — Wah Cantt
Bachelor of Sciences (Electrical Engineering), GPA:2.85, Percentage:74.11% — Grad: March 2017

Misali Zakariya H/S/S — Muzaffargarh
F.Sc (Pre-Engineering), Percentage: 78% — Inter: September 2012

RELATED INDUSTRY TRAINING

Pakistan Ordinance Factory(POF) — Wah Cantt
NIP Internee — July 2017 - July 2018

- **Electrical Maintenance**

  As a Maintenance Internee, It was responsibility for installing and ensuring proper maintenance of electrical machines. Including job duties to finding the deterioration from the electrical machines and then fixing this error with Highly Skilled Team. After that, the machines had to check on the testing board that how machines run with and without load.

  Troubleshooting and Responsibilities:
  o Maintenance of shell type and core type step down transformers.
  o Maintenance of capacitor run and start motors, split-phase motors, polyphase motors, repulsion type motors and DC motors .

  Mainly did:
  o Set and Chain type winding in AC motors.
  o Wave and Lap type winding mostly in Armature of Shunt type Brush DC Motors.
  o Learned how to achieve the desired poles through the pitch given and their End to End and End to Begin or vice versa connections in rotor and stator of an AC motors.
  o Star and Delta connections.
  o Half and Full parallel connections.

- **Electric Power Distribution**

  Under general direction, performed electrical distribution engineering design and technical work, assisted the Operations Supervisor and staff in performing engineering work related to construction, operation, and maintenance of electric system.

  Troubleshooting and Responsibilities:
  o Maintaining and Repairing Overhead Distribution or Transmission Lines.
  o Installing, and Maintaining an Underground Distribution Systems.
  o High / Medium / Low voltage testing of electrical power equipment.
  o Consult manuals, schematics, wiring diagrams, engineering personnel in order to troubleshoot, solve equipment problems and determine optimum equipment functioning.
  o Prepare and maintain reports detailing all tests, repairs, and maintenance performed.
  o Troubleshoot, repair, replace, clean equipment and components in a substation and in a KIOSK.

  Knowledge of the following equipment:
  o Circuit Breakers, LV/MV/HV   o Transformers   o Switchgear   o Motors   o PT's

- **Power Generation**
  o Working mainly in the field of Steam Turbine Generator [2 x 8 MW, 10 MW].
  o PLC and SCADA System

- **Design of Engineering**
  o Load calculations.
  o Proper lightning system in a building.
  o Proper selection of power cable for installation.

Netkom Technologies (Pvt.) Limited
Microwave Internee

- As a Microwave Internee, It was duty to do proper LOS survey.30* links surveys done to install new links. After making sure of LOS data, next step was to install and alignment of Microwave antennas. 3G and 4G upgrade, system configuration included. QC and EHS performed. Installed Microwave Links: Xpic-SD, Xpic- (0, 1+0, and 1+1). Installed dishes: 0.3m, 0.6m, 0.9m, 1.2m, 1.8m. RTN 980 was installed as a radio communication module. Created backup and standby of 3G and 4G through PSTN cards.

FINAL YEAR PROJECT EXPERIENCE

Wireless Automated Smart City
Wireless Sensor Network (WSN)

- Designed a self -organized traffic congestion control system which was the basic application of Smart city.That application based on Wireless Sensing Networks (WSNs) and IOT.Traffic signals controlled between two intersections dynamically by using couples of infrared sensors on each road. IR sensors (to detect vehicles) interfaced with controller then controller interfaced with communication module.Those three devices made a single node for communication with base node. So, eight road nodes communicated in real time simultaneously with two base nodes to change traffic signs automatically and reduce traffic from high intensity road to low intensity road within efficient time.Backed up through external path if all roads highly intense.

MEMBERSHIP OF PROFESSIONAL BODIES

PEC	ELECT/60644	Life Time Membership	June 2017

SKILLS

Software's:	$\bullet MATLAB$	$\bullet Ansoft$	$\bullet Proteus$	$\bullet PCB\ Designer$	$\bullet CISCO\ Packet\ Tracer$
	$\bullet AutoCAD$	$\bullet HFSS$	$\bullet X-CTU$	$\bullet Opti-System$	

Computer languages: $\bullet C/C^{++}$ $\bullet Java$ **Other Software's:** $\bullet \LaTeX,$ $\bullet Microsoft\ office(Excel, Projects)$

SCHOLARSHIP & FUNDING

Scholarship:	HEC merit and need base scholar.
Funding:	Wireless Automated Smart City (Fully Funded by ICT).

COMMUNITY INVOLVEMENT

Volunteer: $1^{+}\ Year$

Worked in school as teacher or teaching assistant in (Math, Physics, Science, English, writing),individ--ual tutor.