**ZEESHAN ASHRAF**

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# Electrical Engineer

**Carrier Objective**

To obtain a creative and challenging position in an organization that gives me an opportunity of self-improvement and leadership, while contributing to the symbolic growth of the organization with my technical, innovative and logical skills.

**Education**

2013 - 2017 Bachelor of Electrical Engineering (*Institute of Space Technology, Islamabad)*

CGPA 2.76

2010 - 2012 Intermediate (*Superior College Rahim Yar Khan)*

871/1100

2008 - 2010 Matriculation (*Engro Model School Daharki)*

804/1100

# **Experience**

1. Currently Working as an Electrical and Instrument Engineer at ***InspecTech***  January, 2018 till present

**Instruments Calibrated:**

* Calibration of pressure gauges (WGTC, Wika , Weiss) and temperature gauges ( TrueTeller)
* Calibration of pressure safety valves
* Calibration of power loggers ( fluke 1735)
* Calibration of AC-DC current calibrator ( Valhalla Scientific 2555A)
* Calibration of torque wrenches
* Calibration viscometer and viscosity cups
* Calibration of RTDs and Thermocouples
* Calibration of Master levels
* Calibration of clamp meters , multi meters, voltmeters
* Calibration of dead weights
* Calibration of pressure, temperature and level transmitter

**Apparatus Used:**

* Fluke Process Calibrator 745
* 475 Field communicator
* Fluke 9012S DRY-WELL
* Fluke 179 Multimeter
* AC calibration Source 232 ( PulseTech Electronics)
* AC/DC clamp meter
* Pressure Calibrator (Ametek, GE DPI 104)

1. Internship at ***Ras Laffan Power Company Qatar*** comprising of following areas of work:

* E&I maintenance and field troubleshooting and calibrations including various types of Transmitters of Emerson Rosemount, ABB & Yokogawa.
* Switches operation and calibration using known pressure and temperature sources.
* Pneumatic and Motor Operated AUMA control valves operation.
* Plant Safety orientation and training with HSE Department. Well aware of Combined Cycle Power Plant Safety documents procedure. Worked with the craft persons on Tag out Order (TOO), Limited Access Permit (LAC), and Temporary Tag out Release (TTR) to cross check the healthiness, Continuous Live Low Voltage Work (CLLVW), Confined Space Permit (CSP) and HOT Work Permit (HWP).
* One week training with Control Room Engineers in 12hrs shifts for learning Combined Cycle Power Plant and Desalination Units Operations. This includes detailed orientation of the Power and Water Plant Operations, graphics navigation, control & process understanding.
* Two weeks of detailed Emerson Ovation Distributed Control System (DCS) certification courses training on live system including:
* OV010- Win 3.3.5 (Ovation Operator Course) including;
  + - List the major components of a typical **Ovation Distributed Control System**.
    - Acknowledge and reset points using the Ovation **Alarm** System.
    - Navigate and operate various **Process Diagrams** and **Signal Diagrams**.
    - Build and Save **trends** of process points.
    - Select and interpret record field data from the **Point Information System.**
    - Performlive **reviews** of points based on certain status conditions.
    - Describe outputs from **Historic Review** and **Historic Trend** functions.
    - Navigate, Monitor and use **Signal Diagrams**.

* OV100- Win 3.3.5 OCR1100 (Starting with Data Acquisition Course) including;
  + - Module 1: System Overview
    - Module 2: Ovation Controller OCR1100
    - Module 3: I/0 Modular Subsystem
    - Module 4: Remote I/O Subsystem
    - Module 5: Ovation Developer Studio
    - Module 6: Configuring The Controller & Ovation I/O Modules
* Module 7: Point Builder
* Module 8: I/O Modules Testing
* Overview of Mark-V control System on GE Frame 9E Gas turbines.
* Overview of ABB Infini90 Control System on 2 Fanco Tosi Steam Turbines 220MW Each.
* Understanding of working for Siemens S-7 PLC and ABB AC 800.
* Plant Billing System IPA and Data Acquisition System Landis & Gyre
* Understanding of Data exchange through ALSTOM SCADA system with Qatar National Electricity and Water Corporation

# **Projects**

**Design and Development of On-Board Computer (OBC):**

This was my final year project for Pakistan National Student Satellite (PNSS-1). Main objectives of the project were to design, develop and implement a reliable and efficient OBC for a Nano satellite. OBC is usually developed around a microcontroller. This subsystem is responsible for controlling the attitude of satellite and communication actions of satellite during whole mission.

**Buck Converter:** It was a semester project for the course of Power Electronics. Input Range: 10V - 14V from 12V Car battery and the output voltage requirement was 4V with output power of 50 watts. The required tasks were achieved successfully.

**Frequency Meter and RPM Counter:** It was a combined semester project for the course Embedded systems & Instrumentation and measurement. Microcontroller was used to measure the frequency of the wave and Infrared sensor was used to measure the rpm of the motor.

# **Technical Skills**

PADS professional, Visual Studio, Multisim , Matlab Microsoft Word, Microsoft Power point, Microsoft Excel

# **Personal Achievements**

* Served in a Welfare Society for 3 years, 2 years as a volunteer and one year as the President. Society named “Umeed” works for the betterment of education in the government schools in rural areas.
* As President of the *Umeed Society,* I completed different projects including sweater distribution, stationary distribution, and uniform distribution in the backward areas of Rawalpindi/Islamabad.
* Worked as an *Event Manager* at university level for the *IST youth Carnival* *Event*.
* Remained *Head School Boy* in Grade-10th for one year.

# **Personal Qualities**

* Strong motivational and leadership skills.
* Excellent communication skills in written and verbal both.
* Highly motivated and eager to learn new things
* Ability to work as individual as well as in group

# **References**

Shall be furnished on demand