MUHAMMAD TALHA MUNIR

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Objective:

A hard-working, highly motivated and co-operative BSc Electrical Engineer having strong communication and technical skills. Seeking to join a progressive organization, where I may utilize my experience and skills for professional growth. I have a can do attitude. I perform effectively even in highly pressurized working environment.

Work Experience:

➢ **Guarantee Engineers: System Engineer (Sep, 2017- Present)**
Guarantee Engineers works in **JV** (joint venture) with **THALES-SELEX** at **New Islamabad International Airport**

Key Responsibilities:

- Design Verification and Design Rectification for Airport Special Systems.
- Interfacing between other contractors, Project Management Consultants, Client and Vendor
- Coordination among sub-contractors, vendors, and client.
- Implementation of Access control System
- Management & Supervision of On-site Installation Activities for WLAN, Two-Way RADIO, IPTV, Flight Information Display, Master Electric Clock, Access Control, Public Address, UPS, Security Check Equipment, and Baggage Handling System.
- Quality Assurance during Installation activities.
- Testing & Commissioning, Site Acceptance Testing, System Integration Testing, and IVVQ performance for Access Control System.

➢ **Radio Pakistan: Junior Internee RF optimizer   (Aug , 2016 - Sep, 2016)**

Key Responsibilities:
- As RF Internee Engineer & Console operator
- Optimizing radio systems for Abbottabad, Pakistan
- Optimized radio channel for distortion free broadcast. Maintained radio channel for   daily broadcast.
- Fine tuning of 101.4 MHz to be spread over the entire Abbottabad.
- Fine tuning for noise free speech and music broadcast.

➢ **Internee at PTCL (June, 2016- Aug,2016)**
- Working in fiber optics and in blocking department

➢ **Internee at Mobilink Microfinance Bank (Aug, 2015- Sep, 2015)**
- As NOC operation Internee

Education:

Degree Title	Institution	Year Finished
BSc Electrical Engineering	COMSATS Institute of Information Technology, Wah cantt.	Fall2013-Spring 2017
FSc Pre-Engineering	Army Public School & college, P.M.A, Abbottabad	2011-2012
Matriculation (Science)	Army Public School & college, P.M.A, Abbottabad	2009-2010

Technical Skills:

- ➤ Advanced Proficiency in AC2000, ZKAccess3.5, PROTEUS, MATLAB, AutoCAD, HFSS, Packet Tracer, NI Elvis, Circuit Simulation, CorelDraw and Microsoft Visual Studio.
- ➤ Hands on experience of C++, C and Assembly language.
- ➤ Strong knowledge of 3G and LTE networks.
  - ✦ Including RF optimization. RF cluster, TEMS optimizer, Drive test, Site Survey reports (SARs), Technical Site Survey Reports (TSSRs).
  - ✦ Antennas and voice/message flow through BTS, BSC, MSC and ss7.
- ➤ Excellent communication and presentation skills

Projects:

Final Year Project:

- ➤ **Fault Monitoring and Communication for Smart Grid**:

  Project functionality: To overcome energy crisis, to communicate all devices in grid station, to detect voltage and current faults and auto switching of the circuit.

- ➤ **Below are the key parts of projects**.
  - ✦ Potential Transformer (used as a voltage sensor)
  - ✦ ACS 712 Hall Effect sensor (used for current sensor)
  - ✦ Mega and UNO Arduino.
  - ✦ NRF24L01 (used for communication)

- ➤ **Project description/Working**

  When we provide/input voltage 180-220v and current value is <= 1 Amp the circuit is in normal condition when the voltage value is not in between 180-220v or the value of current increases from 1Amp at that time potential transformer value is not in defined range Arduino generates an interrupt and relay will become off and all associated parts become inactive.

  NRF24L01 is used for interfacing between Laptop and circuit hardware to monitor the circuit current /voltage value on computer in organized graphical view and also states the exact fault location.

Semester Projects:

- Design of Light Detector
- Design of Remote Car using Arduino
- Design of Solar charger
- Universal Infrared remote control car
- Home automation using DTMF
- Loop antenna
- Dark Sensor
- FM transmitter and receiver
- FM Jammer

Reference shall be furnished upon request.