# REHAN RAUF

## BE ELECTRONICS

House no CB-466
Sadat colony, Wah Cantt
Rawalpindi, Pakistan.
Rehan.bsee1094@iiu.edu.pk
+92-334-5186088

**Objective**

To pursue my professional career in a dynamic environment where I can broaden my horizon by complementing my theoretical knowledge by practical experience where ambition, dedication and handwork is duly valued and rewarded.

**Education**

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| **2008 – 2012** | **Bachelors of Engineering in Electronics (Class of 2012) CGPA 3.34**<br>INTERNATIONAL ISLAMIC UNIVERSITY Islamabad Pakistan. |
| **2005 – 2007** | **F.sc(Pre-Engineering) 76.5% marks**<br>F.G Degree College Wah Cantt. |
| **2003 – 2005** | **Metric 85.5% marks**<br>F.G High School Wah Cantt. |

**Work Experience**

### Network Engineer August 2015 till now

**Nayatel Broadband Pvt Ltd**

Being Senior Network Engineer, I am responsible for supervising, proposing and managing customized IT solutions of the customers. Solutions include Computer Networking, managed Wi-Fi, Security & Surveillance, Video related & Telephony solutions.

**Asterisk based VoIP Exchanges and Call centers**

- IVR implementation and modification, Adding Extensions, Queues and Trunks
- Bash Scripting and Task Automation, Database administration, Dial plan creation and modification
- Call recording and VAS development, Interfacing asterisk with an external database
- Hosted PABX configurations, SIP POTS, SIP Trunks, Audiocon room configurations at Bicom switch,
- SIP based customized voice solutions
- Complete understanding of VOIP protocol and their commissioning on CentOS Linux Based Asterisk Servers.
- A sound knowledge of VoIP and TDM Protocols like **SIP, H.323,MGCP, MegaCo H.248, RTP, RTCP and SS7**
- Support Engineer in commissioning and installation of Huawei SoftX3000
- Troubleshooting of all service level, mapping, and dialing issues of Voice services

### Network Engineer September 2014 till August 2015

**Nayatel Broadband Pvt Ltd.**
**Customer location Pakistan Tobacco Company HQ ISB**

- Being a Network and IT Engineer I was responsible to provide IT and Network Support to Pakistan Tobacco Company which is a subsidiary of BAT (British American Tobacco)
- It included support of OS, network, Video Conferencing, Telepresence and other IT related systems.

### Operation Engineer/Access Networks 1st April 2013 till September 2014

**Nayatel Broadband Pvt Ltd.**

- Provisioning Triple play services for Internet, POTs (SIP, HOSTEX), Video, and IPTV etc.
- Configuration and troubleshooting of customers using:
- GPON **HUAWEI** MA5600T OLT using U2000 and CLI
- GPON **Alcatel-Lucent** 7342 POLT using AMS 5520, TL1 and SSH interfaces.
- BPON **Alcatel 7340** FTTU P-OLT using 5528 WAM and TL1.
- DSLAMs Cisco, Alcatel, Zhone and Paradyne.
- Monitoring and management of ACCESS Networks
- Ensuring proper hand off to the next shift for un-resolved issues.
- Provisioning, maintenance and troubleshooting of LT, NT cards and Media Uplinks of Alcatel, Paradyne, Cisco and
- Zhone DSLAM's.
- Creation and modification of Bandwidth Profiles, ATM QoS, and Cross connects on Cisco, Paradyne, Alcatel and
- Zhone DSLAMs.
- Retrieving Noise Margin, Attenuation of Copper Line from DSLAM and coordination with Transmission teams
- For rectification of Physical Layer problems.
- Configurations and troubleshooting of the ADSL customer's at access layer including PPPoE and P2P customers.
- Providing solutions for installations with different Physical and Access layer scenarios.
- Providing technical support for level II Complaints of Access Layer.
- Good understanding towards the Physical layers installations and issues at customer end.

🗁 **Network Support Engineer** 18th February 2013 to 31st March 2013
**Nayatel Broadband Pvt Ltd.**

- Technical assistance to the broadband users using triple play services(voice, video and internet)
- Handling customers technical issue including system, core and access layers issue
- L2/L3 VPNs support and troubleshooting-Cisco 7609
- P2P MPLS circuits support and troubleshooting-Cisco 7609 and Juniper E-120
- IP pools, Internet support and troubleshooting-Cisco 7609 and Juniper E-120
- Broadband Routers/VPN/DNS/DHCP configuration troubleshooting
- Providing technical support to the FTTH users on network level.
- Providing technical support to the DSL users on network level.
- Providing technical assistance to organizations for their NAT and Multi NAT solutions over different routers.
- Monitoring network resources utilization and suggesting possible measures.
- Providing technical support to users on their LAN/WLAN problems.
- Understanding of Fiber Optics and FTTU installation.
- Overview of VOD (Video on Demand) and IPTV basics.
- Knowledge of DSL architecture in detail.
- Knowledge of networking and over view of routing protocols (OSPF,IS-IS,BGP) and MPLS
- Basics of VoIP, PRI and Hostex services.
- Knowledge of Analog/Digital video distribution over FTTU network.
- Knowledge of BPON/GPON architecture and ATM access network.
- Overview of DNS, Web, Proxy, FTP and Email services.
- Knowledge of advanced level CPE (Customer Premises Equipment) configuration.
- Basics of eFax and troubleshooting.
- Understanding the customers LAN configurations and give possible solutions accordingly.
- Excellent Understanding of IP routed L2 L3 and PPOE circuits.

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## Trainee Engineer

**NDC** (National Defense Complex Islamabad) with a sponsored R & D FYP.
Two months internship at **PTCL** (Broadband & MDF)
Two months internship at **POF** Wah Cantt (Electronics Department).

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## Professional Trainings

1. IP Addresses and Networking.
2. FTTx Transmission.
3. DSL Transmission.
4. GPON Access Networks...
7. Next Generation Networks Voice.
8. CPE Configuration.
9. Level 1 Troubleshooting.
10. Customer Handling.
11. Business Communication.
12. Linux Basic Training
13. Asterisk Basic Training with Centos Linux platform
14. Huawei WLC Managed WIFI solution for Enterprise Network.
15. Linux RHEL professional training for administration and troubleshooting.

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## Final Year Project

- **Electro Kinetic Energy Road Ramp**

This is basically an R & D project an implemented technique of alternative energy, i.e. generation of electricity by Speed breakers ever done in Pakistan sponsored by NDC Islamabad.

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## Academic Honor & Achievements

- One fast track promotion from Network Support Engineer to Operations Engineer at Nayatel Pvt Ltd.
- Got fully funded scholarship from **ICT R & D Ministry Pakistan** for BS-Electronics Engineering
- At International Islamic University.
- Sponsored final year project by **NDC**
- Achieved FBISE Scholarship in SSC.

## Assorted Skills

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| **Languages:** | English, Urdu, Punjabi (Basic). |
| **Platforms:** | Windows v3.1 and onwards. |
| **Programming Languages:** | C/C++, microcontroller Programming, PLC programming using LADDER & GRAFCET. |
| **Graphics & Design:** | Adobe Photoshop, AutoCAD. |
| **Software Proficiency:** | MATLAB 7.3, PSpice, Ms Office, Keil, Cisco, Dip trace. |
| **Management Skills:** | Technical Report Writing & Presentation Skills. |

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## Semester Projects

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| **Electronics I:** | Design and built a '**Fire Alarm using LDR**' circuit. |
| **Electronics II:** | FM Transmitter and Receiver using transistor. |
| **Microprocessor Interfacing:** | Line Tracking Robot |
| **Signals & Systems:** | GUI Based Convolution Calculator On **MATLAB**. |
| **Circuit Analysis I**: | Amplifier (2.1 Audio) using passive filters. |
| **Digital Logic Design:** | Calculator using basic gate ICs. |
| **Communication systems** | Design Of **FM Demodulator** |
| **Instrumentation & measurement** | Design of **pressure & temperature measurement** |
| **Embedded systems** | Design and built **oscilloscope** using **AVR microcontroller** |

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## Extracurricular Activities

- Selected as CHIEF CR at Faculty if Engineering IIUI.
- Selected as **Head Boy** for the school boy-scout network on the basis of punctuality, discipline & truthfulness by the faculty.
- **Organizing Head FETEX** (FET engineering expo)
- Executive Member – **Binding Links for the Unity of Engineers FET IIUI.**
- **Chief Organizer**, FET Open house 2011 & 2010.
- Represented and won trophies as part of the School and University **Football and volleyball** Teams.
- Part of organizing teams for several Intra-university events, having worked in leadership capacities for liaison, technical,
- Publicity and lodging teams.
- **Managing head** of **Farewell '11** and helped organize **Welcome' 10** by being part of the management, technical as well as backstage crews.

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## Interests & Activities

- **Liberal Arts:** Music, Situation Comedy, Public Speaking, Literature, volunteer Work.
- **Recreational Activities:** Cricket, Football, Volleyball, Trekking, E-gaming, Travel, Hiking.