Nasir Hakeem
Lead Telecom & Security Engineer

PERSONAL INFORMATION

Permanent Address: Flat-48D, Lane-4, Askari-7, Adyala Road, Rawalpindi, Pakistan, 46000
Nationality: Pakistani
Date of Birth: 28th April, 1987
Marital Status: Married with 1 child
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SUMMARY

Goal-oriented and self-motivated professional with **10+ years** of diverse experience in multiple fields of telecommunication and security systems. Seeking to polish my technical knowledge and management skills in current challenging position. Looking for opportunities to enhance my team leadership, project management and inter-personal skills. My objective is to put maximum effort in contributing significantly for the growth of a reputed organization that values hard work, dedication, honesty and creativity.

- Hands on experience in implementing projects related to the following fields:

    ✓ Outside Plant (OSP) Network Design & Implementation
    ✓ Structured Cabling System (SCS) Design & Implementation
    ✓ Security Systems Design & Implementation
    ✓ Radio Access Networks (RAN) Planning & Designing
    ✓ Radio Access Networks (RAN) Optimization & Performance Maintenance
    ✓ Microwave Networks Planning, Designing & Implementation

- Worked on different projects to develop Detail/FEED Engineering Drawings and Documents related to Building Infrastructures, Industrial Communication and Security Systems and GPON-FTTH for residential villas/buildings for clients like SAUDI ARAMCO, ROYAL COMMISSION FOR JUBAIL & YANBU, SAUDI ELECTRICITY COMPANY and MA'ADEN.
- Worked with multi-national telecommunications service providers and global leaders like SBM, HUAWEI and ETISALAT for the Design, Planning, Implementation, Troubleshooting and Performance Maintenance of 2G/3G/4G LTE Radio Networks.
- Proficient knowledge of international and local Communication and Security standards like BICSI, TIA/EIA, HCIS, SAUDI ELECTRICITY COMPANY and SAUDI ARAMCO.

WORK EXPERIENCE

Al Kifah Contracting Company (KCC)
Lead Telecom & Security Engineer (Dec 2019 - July 2020)

Clients: SAUDI ARAMCO, RC, SEC, NG

Responsibilities:
- Preparing shop drawings for projects to support vendors.
- Preparing BOQ/BOM for suppliers/vendors for getting quotations/offer.
- Providing technical solutions to comply with project standards, specifications and requirements.
- Supporting Tender/Bidding department by timely response with correct pricing including installation/commissioning.
- Following up with vendors/suppliers and consultants in a professional way to meet project/proposal deadlines.
- Prepare Design for ELV Systems and Security Systems as per project requirements and specifications.

Dar Al Riyadh Consultants, Khobar, Saudi Arabia دار الرياض DAR AL RIYADH
Sr. Communication Engineer (Apr 2013 – Nov 2019)

Clients: SAUDI ARAMCO, RC, SBM, SEC, MA'ADEN

Projects:
- Construction of Waad Al-Shamal Combined Cycle Power Plant at Turaif (SBM/SEC)
- Integrated Security Systems Design for Yanbu Commercial Port (SBM/YCP)
- Design and Engineering of CCTV & SACS for East, Central & North regions (SBM/SEC)
- Telecom Design and Engineering for Package 5C/SOP at Turaif (SBM/MA'ADEN)
- Telecom Design and Engineering of Camp Facilities at Jafurah (SAUDI ARAMCO)
- Telecom Design for Rail Shunting Facility at Ras Al-Khair (SBM/MA'ADEN)
- In Plant Voice Paging System Design for Package 6.15.3 Umm Wu'al at Turaif (SBM/MA'ADEN)
- Permanent Communication Systems for Riyadh Combined Cycle Power Plant PP13 (SBM/SEC)
- Permanent Communication Systems for Riyadh Combined Cycle Power Plant PP14 (SBM/SEC)
- OSP/PDS Design Services for Qassim Combined Cycle Power Plant (EBTTIKAR/SEC)
- EPC of Living Quarters for Industrial Security Staff at Ras Al-Khair (RC)
- EPC of Security Forces and RC Industrial Security Facilities at Ras Al-Khair (RC)
- EPC of Housing Units for Ras Al Khair in Mutrafiah Sector-F (RC)

Responsibilities:
- Project management, planning, execution, designing and implementation as per client's standards, specifications and requirements.
- Conducting site survey and preparing site visit reports, project need list, project deliverables list and Man-hour estimation.
- Base and detailed design engineering drawings and documents related to OSP for both copper and fiber optic cable, Structured Cabling System, Voice/Data Networks and Security systems.
- Regular meetings with clients for design scope and review, vendor coordination and inter-disciplinary review and coordination.
- Calculating link loss budget, cable attenuation loss and cable pulling tension.
- Preparation of Bill of Quantities (BOQ) and Consolidated Material Take-off (MTO) list.
- Design of communication & security systems like CCTV, SATV, SACS, PAGA and Siren.

Huawei Technologies, Islamabad, Pakistan HUAWEI
Sr. RF Planning & Optimization Engineer (Mar 2011 – Apr 2013)

Project: Ufone/Huawei NPM

Responsibilities:
- KPI's monitoring, troubleshooting and worst cell analysis of assigned BSCs.
- Compiling and maintaining the cluster hourly status of all major KPIs.
- 3G Spectrum scanning (800MHz and 2100MHz bands) using Tektronix Spectrum Analyzer.
- Coverage/Capacity planning and predictions' analysis using the Asset tool.
- Monitoring and reporting of External Uplink Interference on daily basis.

- Detection of external interference sources/jammers using Tektronix Spectrum Analyzer.
- Joint activities with PTA and FAB for the removal of Jammers in different locations.
- Extensive working on Huawei iManager PRS and iManager M2000.
- Neighbor Audit, Frequency Audit and Parametric Audit using MapBasic tools.
- Maintaining and updating RFO-BSS Tracker for hardware issues on daily basis.
- Nationwide daily reporting of RFO-BSS Hardware issues and their summary.
- MOS Testing using the Genex Probe tool.
- Carried out extensive drive tests/walk tests in different locations.
- On the field recommendations based on drive test to solve complex issues.
- Pre/Post Optimization based on drive test analysis and post processing.
- Carried out GPRS/EDGE testing of different areas.
- Carried out CS and PS Benchmarking of different areas.
- Post reporting of drive tests and preparing optimization reports on daily basis.
- Customer complaints handling related to call drops, voice distortion and call connectivity.
- Carried out Cell Neighbor Audits by using MapBasic tools like Mapper, Piano and Xtracker.
- Carried out Parametric Audits by using Huawei PRS extracted network dump.

Ufone (PTML), Islamabad, Pakistan
RF Optimization Engineer (Apr 2010 – Mar 2011)

Vendor: Huawei

Responsibilities:

- KPI's monitoring, troubleshooting and worst cell analysis of assigned BSCs.
- Compiling and maintaining the cluster hourly status of all major KPIs.
- Pre/Post Optimization based on drive test analysis using TEMS, MapInfo and Actix.
- Carried out GPRS/EDGE testing of different areas.
- Carried out CS and PS Benchmarking of different areas.
- Customer complaints regarding call drops, voice distortion, call muting and connectivity.
- Post reporting of drive tests and preparing optimization reports on daily basis.
- Carried out Cell Neighbor Audit by using Mapper, Piano and Xtracker.
- Carried out Parametric Audit by using network dump data extracted through PRS.

QUALIFICATIONS

- **B.E. Electrical & Communication – CGPA: 2.71**
  National University of Sciences & Technology (NUST), Islamabad, Pakistan (2005 – 2009)

- **Intermediate [Pre-Engineering]** – Federal Board of Intermediate & Secondary Education (FBISE)
  Marks: 880/1100 (80%) – Grade: A1 – *Army Public College, Peshawar, Pakistan (2005)*

- **Matriculation [Science]** – Federal Board of Intermediate & Secondary Education (FBISE)
  Marks: 738/850 (87%) – Grade: A1 – *Army Public School, W-III, Rawalpindi, Pakistan (2003)*

ACCREDITATAION
- Professional Engineer - Saudi Council of Engineers (SCE) **License #162141**
- Professional Engineer - Pakistan Engineering Council (PEC) **License #27495**

CERTIFICATIONS
- Enterprise Wireless Networks **(Leviton)**
- Designing & Installing CAT 6A Systems **(Leviton)**
- Fiber Optic Infrastructure Specialist **(Commscope)**
- Cabling Standards for IoT 2020 **(Belden)**

WORKSHOPS/COURSES/SEMINARS

- **U-Excel:** Career Building Seminar by Ufone and School of Leadership(SoL)
- **Wireless Channel Modeling & Simulation:** One week practical workshop
- **Introduction/Research Issues in Optical Networks:** Three days practical course

ENGINEERING TOOLS

- TEMS Investigation
- MapInfo Professional
- Tektronix Spectrum Analyzer
- Aircom Asset Planning
- Huawei Genex Probe
- Huawei iManager M2000
- Huawei iManager PRS
- Actix Analyzer
- Pathloss 4.0 Profiling
- Autodesk AutoCAD
- MicroStation V8i
- Microsoft Office & Visio

B.E. FINAL YEAR PROJECT

Generation of Multi-class Optical Orthogonal Codes using the Rejected Delays Reuse (RDR) and Simulation of an Optical CDMA (OCDMA) System in MATLAB

This work presents the generation of multi-length and multi-weight (multi-class) optical orthogonal codes using Greedy Rejected Delays Reuse (RDR) algorithm. An OOC is a family of (0,1) sequences with good auto-correlation and cross-correlation properties. Study of such codes has been motivated by an application in a code-division multiple-access optical fiber channel. Its use allows a large number of asynchronous users to transmit information efficiently and reliably. These codes also find applications in mobile radio, spread spectrum communications, radar/sonar signal design.

HONORS AND AWARDS

- **Excellence Award for highest marks in F.Sc [Pre-Engineering]**
  Awarded by Fauji Foundation (Pvt.) Ltd, Islamabad, Pakistan (May 2005)

- **Head of College Admin and Prefect Board**
  Army Public College, Peshawar, Pakistan (2003 – 2005)

- **Senior Prefect and House Captain**
  Army Public School, Westridge-III, Rawalpindi, Pakistan (2001 – 2003)

LANGUAGES
English, Urdu, Punjabi, Pashto, Arabic (read only)

REFERENCES
Will be furnished upon request