MUHAMMAD NADEEM

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Passionate Engineer with a strong academic background in Telecommunications and Network Security, eager to apply expertise to deliver reliable and innovative communication services. Skilled in telecom systems, network fundamentals, and collaborating with multidisciplinary teams to enhance and secure wireless communication networks.

PROFESSIONAL EXPERIENCE

SPECIAL COMMUNICATION ORGANISATION(SCO)
TELECOM (INTERN) **JULY 2024 – AUG 2024**

- Acquired fundamental knowledge of dialing protocols and mobile communication operations during my internship.
- Hands-on experience in telecommunication systems, including **GSM, CDMA, PSTN, and DXX**, with a strong understanding of voice and data transmission protocols.
- Familiar with mobile network technologies across generations—**GSM (2G), UMTS (3G), LTE (4G)**, and **emerging 5G architectures**, including their integration and operational challenges.
- **Worked with media transmission systems, billing platforms, and customer care** modules to ensure efficient service delivery and user experience across network layers.

RELEVANT SKILLS

- Technical Skills: Wireshark, Cisco Packet Tracer, MATLAB, Microsoft Office, Proteus, Mobile Communication Systems, HFSS(Software)
- Coding Languages: C++
- Professional Skills: Adaptability, Troubleshooting/Monitoring, Attention to detail, Strategic Thinking, Analytical Skills, Communication excellence, Leadership, and Teamwork.

EDUCATION

NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY **Islamabad, Pakistan**
Bachelor of Electrical Engineering **(CGPA 3.20/4.00)** **2021-2025**

- **Relevant Courses**: Satellite communication, Mobile Communications, Computer Communication and Network, Waveguide and Antenna, Professional Ethics, Project Management.
- **Network Monitoring and IDS System (FYP)**: Designed a network monitoring device using Raspberry Pi to analyze traffic, detect anomalies, and identify intrusions. Integrated AWS cloud services for secure data storage and real-time threat detection. Developed a mobile app with an intuitive dashboard for remote monitoring of network traffic, alerts, and security insights.
- **Ball and Beam System:** Implemented a PID-controlled closed-loop system using Arduino Mega 2560, IR sensor, and servo motor to balance a ball on a beam. The system dynamically adjusts the beam angle in real-time to maintain the ball at a 14 cm setpoint with minimal delay and overshoot.

ADDITIONAL INFORMATION

- Organized Bootcamps and Workshops at MCS,NUST