

ALISHBA AZAM MALIK

Telecommunication Engineer

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SUMMARY

Telecommunication Engineer with a higher degree in Telecommunication Engineering from NUST, one of Pakistan's top-ranked institutions. Possesses hands-on experience in both academic and industrial environments. Currently serving as a Lab Engineer at MCS, NUST, supporting teaching and laboratory work in communication systems. Previously worked as a VAS Cloud Delivery Engineer at Huawei Global Service Center, a leading organization in Pakistan's ICT sector, with experience in deployment and support of carrier-grade telecom solutions. Actively seeking opportunities to pursue high-quality research and development in advanced communication technologies.

EDUCATION

Masters in Electrical Telecommunication Engineering, Telecom <i>Military College of Signals, (NUST)</i> Thesis: Joint User And Throughput Maximization In Reconfigurable Intelligent Surfaces (RIS) Assisted Beyond 5G/6G Networks GPA: 3.9/4.0	08/2022 Rawalpindi, Pakistan
Bachelors in Electrical Engineering (With Honours) <i>University of Engineering & Technology Taxila</i> Final Year Project : Wireless Smart Combat Helmet for Soldiers GPA: 3.89/4.00	07/2019 Taxila, Pakistan
FSc (Pre- Engineering) <i>APSACS Fort Road Rawalpindi</i> Marks:907/1100 (A1 Grade)	06/2015 Rawalpindi, Pakistan
Matriculation <i>FFMS Rawalpindi</i> Marks: 898/1050 (A1 Grade)	04/2013 Rawalpindi, Pakistan

EXPERIENCE

Lab Engineer <i>MCS, NUST</i> - Conducted and supervised laboratory sessions in subjects including Digital Signal Processing, Digital Logic Design, Engineering Drawing, Computer and Communication Networks, and Communication Systems. - Created lab manuals tailored to course outcomes. - Gained practical experience with FPGAs, mmWave sensors, and Arty Z7 kits. - Participated in research activities focused on wireless Networks and embedded systems.	10/2023 – Current RAWALPINDI, Pakistan
Vas Cloud Delivery Engineer (VAS) <i>Huawei GSC Islamabad</i> - Delivery, operation and maintenance of carrier software products(VAS, IN, CBS). - Output the Low Level Design (LLD) and integration solution. - Execute the deployment, configuration and support for acceptance testing and go-live to maintenance. - Hands on experience on linux (Euler OS 2.10/SUSE 12.5), DB (Oracle DB/Gauss DB) and Carrier Software Data Network. - Basic understanding of SMS call flow and telecommunication protocols such as SIP, Camel, Diameter and core network technologies - Achievements/Tasks	10/2022 – 10/2023 Islamabad, Pakistan
Teaching Assistant/Lab Engr <i>MCS (NUST) Department of EE</i> I worked as a teacher assistant/ Lab Engineer in the supervision of Assistant Professor Dr. Imran and conducted CDL Lab and setting up exams and maintains student academic records.	06/2021 – 08/2022 Rawalpindi, Pakistan

Internee

Special Communication Organization (SCO)

07/2018 – 09/2018
Rawalpindi, Pakistan

- Practically introduced to following specialties or departments for a week; Media Transmission, PSTN, GSM, CDMA, IGW&SES, IN, Customer Care and Call Center, IT, Switches/Microwave, Billing System and some of the latest technology used in telecommunication

Internee

502 WORKSHOP, EME

08/2017 – 09/2017
Rawalpindi

- Completed an intensive multi-departmental technical rotation focusing on Electronic Warfare (EW) and Tactical Communications. Gained hands-on experience in the design and software simulation of Jamming Devices and Counter-IED (C-IED) systems. Specialized in the configuration of Software Defined Radios (SDR) and HARRIS tactical equipment, while performing complex PCB layout and circuit design within a dedicated laboratory environment."

RESEARCH INTERESTS

My Research Interest are **Wireless Communication, 5G/6G networks, RIS, Signal Processing** with a focus on optimization, resource allocation, and Implementation of different techniques that improve the network Performance

PUBLICATIONS

Alishba Azam, M.Imran, Mudassir Ali, Humayun Zubair, Abdul Wakeel, M.Naeem (2023). Joint user and throughput maximization in re-configurable intelligent surface assisted beyond 5G/6G networks. *Transactions on Emerging Telecommunications Technologies*, 34(8), e4807. <https://doi.org/10.1002/ett.4807> 

CERTIFICATES

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| • Certified in Project Management Course IBA, Karachi. | • Certified in Cyber Security for Service Work. | • Certified in Remote Delivery for Service Work. |
| • Certified in Proposition Competence Certification for Maintenance Service. | • CPD course on CPEC project and opportunities. (PEC) | |

SKILLS

— Programming Languages C/C++, Assembly, Verilog, MATLAB • Great command over Latex for writing thesis and research papers. • Competence with Research Paper, Technical Report, and Business Letter Writing. • I am upskilled in the use of different engineering software packages like Simulink, Wireshark, Cisco Packet Tracer, CCS, Vivado Design Suite(Xilinx), GNS3, MSOffice, Visual Studio, ModelSim, PSPICE, MATLAB

PROJECTS

MS Project

Joint User and Throughput Maximization using RIS assisted Network

BS Project

Wireless Smart Combat Helmet for Soldiers

SCHOLARSHIPS

- Teaching Assistantship (MS Scholarship) — Awarded on merit with a stipend.
- 2nd position in MS Batch in Dept. of Electrical Engineering, NUST, MCS Rawalpindi
- Awarded Merit-Based Scholarship at BS level with a stipend
- Recipient of Fauji Foundation Excellence Merit-based Scholarship 2009-2010

REFERENCES

Dr Adil Masood Siddiqui, *Dean*, MCS, NUST
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Dr Muhammad Imran, *Associate Professor*, MCS, NUST
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Dr Amara Umar, *Assistant Professor*, MCS, NUST
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