

SABBIR AHMED

Senior Associate | IT Division | Robi Axiata PLC | Dhaka, Bangladesh
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RESEARCH INTEREST

AI-assisted Next Generation Wireless Networks (5G/6G), Distributed Machine Learning, Edge Computing, Signal/Image Processing, Remote Sensing, and Internet of Things (IoT)

EDUCATION

Islamic University of Technology (IUT) (*a subsidiary organ of OIC*)
BSc, Electrical and Electronic Engineering
CGPA: 3.70 out of 4.00 (last 4 semesters CGPA: 3.95 out of 4.00)
Gazipur, Bangladesh
January 2017 – March 2021

Notre Dame College
Higher Secondary School (HSC)
GPA: 5.00 out of 5.00
Dhaka, Bangladesh
2016

RESEARCH EXPERIENCE

Undergraduate Thesis – “Challenges in 5G Network Planning: Design and Optimization using Atoll”

- **Network Planning:** Designed an efficient network by installing a minimal number of base stations (19 gNB) for the selected area
- **Optimization:** Enhanced computational area coverage by 8.96% in RSRP and 2.54% in RSRQ, while minimizing overlap
- **Performance:** Achieved high-quality signal metrics with 90.09% RSRP and 93.05% RSRQ in both uplink and downlink

PROFESSIONAL EXPERIENCE

Senior Associate, Core IT Application, Information Technology
Robi Axiata PLC | *A multinational telecommunication company*
Oct 2022 – Present
Dhaka, Bangladesh

- **Conduct Technical Feasibility and Solution Optimization**
Lead the analysis of business requirements (both domestic and international roaming), focusing on the technical feasibility of telecom-related projects and provide optimized solutions.
- **Telecom Package Configuration in BSS Systems**
Configure and optimize telecom packages in various Business Support Systems (BSS)
- **Automation of Charging & Billing Systems Using Python**
Develop and implement Robotic Process Automation (RPA) for telecom charging and billing systems.

Graduate Substation Design Engineer (Electrical)
Electricity Transmission Consultant Bangladesh Limited (ETCBL Global)
June 2021 – Sept 2022
Dhaka, Bangladesh

STANDARDIZED TEST SCORES

International English Language Testing System (IELTS) - 23rd November 2024

Overall Score	Listening	Reading	Writing	Speaking
7.5	7.5	8.5	7.5	6.5

UNDERGRADUATE PROJECTS

- P1.** Development of Real-time Facemask Detection using CNN & Deep Learning (BSc. 4th Year Project)
- P2.** Designing of Noise Cancellation Filter using MATLAB (BSc. 4th Year Project)
- P3.** Implementation of Automatic Power Factor Improvement using Arduino (BSc. 3rd Year Project)
- P4.** Designing of Basic Calculator using 8051 Microcontroller (BSc. 3rd Year Project)
- P5.** Development of CGPA Calculator using Python programming language (BSc. 2nd Year Project)
- P6.** PCB implementation of basic calculator using Proteus software ... (BSc. 2nd Year Project)
- P7.** Implemented Intelligent Scrap Manager using Arduino 101 (BSc. 1st Year Project)

SCHOLARSHIPS & ACHIEVEMENTS

- **Best Project Award** for seamless delivery of Fixed Wireless Access (FWA) project at IT Townhall Q3 2024 in Robi Axiata PLC
- **Best Project Award** for successful and smooth delivery of BTRC Directed VAT Change Implementation project at IT Townhall H1 2024 in Robi Axiata PLC
- **Government Scholarships:**
Received board scholarships (talent-pool category), offered by Government of Bangladesh in
 - Secondary School Certificate (SSC) Examination – 2014
 - Junior School Certificate (JSC) Examination – 2011
 - Primary School Certificate (PSC) Examination – 2007

EXTRACURRICULAR ACTIVITIES

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| Organizer
(2019-2020) | • Science Olympiads, organized by Science Club of Chuadanga (SCC), a regional competition among school & college level students to enlighten them about innovations of science & technology. |
| Organizer
(2017-2020) | • Esonance, organized by Islamic University of Technology (IUT), EEE department, a national competition on innovations in the field of engineering. |
| Member
(2017-2018) | • IEEE IUT student branch, volunteered to organize seminars, quizzes etc. |
| Participant
(2017) | • Idea workshop for mobile games and application development organized in IUT by ICT division of Bangladesh |

CERTIFICATIONS & TRAININGS

- Cisco Networking Foundations: Fundamentals of Cisco Networking [LinkedIn Learning]
- Introduction to Prompt Engineering for Generative AI [LinkedIn Learning]
- Product Management Insights [Coursera]
- Introduction to 5G [LinkedIn Learning]
- Introduction to TensorFlow for AI, ML, and Deep Learning [Deeplearning.ai]
- Python Data Structures Certification [University of Michigan (Online)]
- Using Python to Access Web Data Certification [University of Michigan (Online)]

TECHNICAL SKILLS

Programming Language:	Python, Oracle SQL, C
Computer Software:	Proteus, MATLAB, COMSOL, CodeBlocks, Atoll, PSpice, SoapUI, PyCharm

LINGUISTIC PROFICIENCY

- English (fluent working proficiency)
- Bangla (native language), Urdu and Hindi (working proficiency)