**Bushra Mehnaz Priyanka**

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# Education:

**New Jersey Institute of Technology (NJIT), New Jersey, USA 05/2016**

MS in Electrical Engineering (Concentration: Communication and Computer Networking) - GPA: 3.6/4.00

*Key Courses*: Random Signal Analysis, Computer Network Design and Analysis, Internet and Higher Layer Protocols, Linear Systems, High Performance Routers and Switches, Wireless Network, Computer Communication Network, Computer Networking laboratory, Digital Comm *Certificates*: CCNA Routing and Switching-CISCO License: CSCO12912049 **04/2016**

# North South University, Dhaka, Bangladesh 04/2014

BS in Electrical and Electronics Engineering (Concentration: Telecommunication) - GPA: 3.11/4.00 (3.42 in Senior Year)

# Technical Skills:

* Programming Languages: Python, C, JAVA(basic)
* Web Development and Database Management: HTML,.NET, SQL, MS Access, XML
* Operating Systems: Microsoft Windows, MAC OS, Linux, iOS, VMware, checkpoint Standalone Firewall
* Key Network Protocols: TCP/IP, IPV4, IPV6,MPLS,tcl,VxLAN, OSPF, ISIS,BGP,FTP, DHCP, SNMP, DIAMETER, RTP, SMTP SSH, SIP, Telnet
* Network Packet Analyzers and software: Wireshark , CISCO Packet Tracer, NetMon, IPerf
* Others: MATLAB, Microwind, OPNET, LabVIEW, AUTOCAD, Proteus, PSIM, PSPICE,MS Excel, MS Word, MS PowerPoint, MS Project, Ms Server

**Work Experience:**

**Graduate Assistant -­‐ New Jersey Institute of Technology-­‐Resident Life, New Jersey 09/2015 – 05/2016**

* Resolve and oversee technical issues (Hardware and Software) for Office machines
* Manage and operate student check-­‐in procedure in Resident hall by encoding ID card through software
* Process the Student’s confidential housing documents and maintain the database of student information

# Engineering Assistant Summer Intern – Metropolitan Transport Authority (MTA) New York City Transit, New York 06/2015 -­‐ 08/2015

* Worked in the project for configuring VLAN in Layer 2 of OSI model for IP based devices to be installed at Wall Street station, NY
* Reviewed and cross-­‐checked network architecture and data conduit drawings on contract submittals and contract blueprints
* Prepared pre installation checklist for IP devices (network connected CCTV and Traveler Help Points) and assisted network team to configure VOIP Intercom at traveler Help Points (using SIP)

**Technical Undergraduate Intern - Pan Pacific Sonargaon Hotel, Dhaka, Bangladesh 07/2013 - 06/2014**

* Set up and administer user and groups accounts, setting permissions for users.
* Diagnosed and resolved problems associated with DNS, DHCP, VPN.
* Setup and configured Local Area Network for the engineering Department and assisted to IP address allocation on PCs
* setup rules and configured policy on Gaia portal R77 for Checkpoint Firewall.
* Assisted in daily troubleshooting help for firewalls, VPN connections, Anti-virus updates and general network related issues

# Academic Projects and Research Experience:

* *Academic Projects*: [1] A Hybrid IP Lookup Architecture Using TCAM based engine for High Speed Lookup and On Chip SRAM based pipeline for Fast Route Update [2] Tracing and Analyzing of Network traffic using Wire shark network Traffic Analyzer [3]Speech Synthesis analysis by comparing Power Spectral Density of estimated Autoregressive Model with the Periodogram of an input audio data [4] Traffic Offloading via SIPTO enabled LTE Femtocell (He NB) architecture and interference management with enhanced Inter- cell interference coordination in Small cells.[5]IP addressing, subnetting troubleshooting in Linux system.
* *Publication*: [1] Performance Analysis of Three Phase Photovoltaic Half Bridge Inverter Using LC, T-LCL & T-LCLC filter Accepted for publication at IEEE conference PEMC, 2014, Antalya, Turkey, Published in ICAEEE’15.[2] Three-Phase Half-Bridge Photovoltaic Inverter for Industrial Applications Using LC, T-LCL and T-LCLC Filter Circuits”2nd international Conference on Advances in Electronics and Electrical Engineering (ICAEEE),Received the Best Paper Award.
* *Research Interests:* Data Analytics and Numerical methods for predicting network performance and optimization, computer Networking Wireless Communication & Network

# Additional Information:

* *Voluntary Works:* [1] Brand Ambassador for Bandwagon [2] NJIT Career Fair 2014 Volunteer-Co-ordinated guests and employers [3] Organized and arranged workshops as a Team Leader of Society of Science Engineering and Technology at NSU