

## Md. Monsur Rahman

**Address:** House No: 86, Road No: 7/1, Block No: C,  
Area: Adarsha Para, Ward No: 04; Municipality of Joypurhat,  
P.O- Joypurhat, Dist: Joypurhat, Bangladesh

**Mobile:** +88 01733553547

**Email:** monsur926@gmail.com



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## CAREER OBJECTIVES

With dynamic and challenging environment, I can improve myself and I can contribute my potentiality and experience to meet the goal of organizations and build up a successful professional carrier. I am enthusiast individual to learn about new ideas and technologies. I am energetic and devoted where interest and creativity can be found.

## EDUCATION

**Degree** : Master of Science in Engineering (M. Sc. Engg.) in Applied Physics and Electronic Engineering

**Institution** : University of Rajshahi, Rajshahi, Bangladesh

**Duration** : July 2016 to July 2017

**CGPA** : 3.91 (Out of 4.0)

**Position** : 3<sup>rd</sup>

**Degree** : Bachelor of Science in Engineering (B. Sc. Engg.) in Applied Physics and Electronic Engineering

**Institution** : University of Rajshahi, Rajshahi, Bangladesh

**Duration** : June 2011 to August 2015

**CGPA** : 3.85 (Out of 4.0)

**Position** : 2<sup>nd</sup>

**Degree** : Higher Secondary School Certificate

**Institution** : Joypurhat Govt. College, Joypurhat

**Result** : Golden GPA 5.00 (Out of 5.00)

**Degree** : Secondary School Certificate

**Institution** : Joypurhat R.B. Govt. High School, Joypurhat

**Result** : Golden GPA 5.00 (Out of 5.00)

## PROFESSIONAL EXPERIENCE

- Lecturer of Physics under the Faculty of Science and Engineering in North Bengal International University, Rajshahi (From January 2018 to Present )

## PUBLICATIONS

- M. Babul Islam, Md. Hamidul Islam and Md. Monsur Rahman, "Wiener Filter in Wavelet Domain for Mel-LPC based Noisy Speech Recognition", *International Journal of Computer Applications*, Volume-181, No-33:1-4, December 2018.

## RESEARCH EXPERIENCE

**Master's Thesis** :6-Monthes (1 Semester) research experience in M.Sc. Engg.

**Title** : Bangla Noisy Speech Recognition in Wavelet Domain

**Description:** This research makes a system to work in a poor signal to noise ratio (S/N) with good accuracy. This research will help us to improve the telecommunication system via the Bengali

language and it will be used in automation of operator services, in automation of directory assistance and in many cases.

**Supervisor:** Dr. M. Babul Islam, Controller of Examinations & Associate Professor, Department of Applied Physics and Electronic Engineering, University of Rajshahi, Rajshahi-6205, Bangladesh

## PROJECT ACTIVITIES

- Successfully completed a Java based Project work entitled “**Development of A Java Based Academic Result Processing Software** ” in undergraduate under supervision of Dr. Md. Abdur Rahman, Dept. of Applied Physics and Electronic Engineering, University of Rajshahi, Bangladesh
- Developed a project on **USB connected LDR Based PC Desk Lamp**
- Have good idea on the design of **RFID**

## TECHNICAL SKILLS

- **Programming Language:** C, C++, VHDL, Shell Programming and MATLAB (R2014a)
- **Assembly Language:** for 8085 microprocessor, for AVR microcontrollers.
- **Web and Database Oriented Language:** HTML and Javascript.
- **Networking Oriented Software:** CISCO Packet Tracer 7.0.
- **Application Software:** Microsoft Office (Word, PowerPoint, Excel and Access), Adobe Photoshop, Internet and E-mail applications.
- **Programming Simulation Software:** Xilinx 9.2i, WinAVR and AVR studio 4.
- **Visual Simulation Software:** Proteus 7.7.
- **PCB and Front Panel Designing Software:** TARGET 3001.
- **Natural/Human Language Skills (Fluent):** Bangla (Native), English.

## AWARDS & SCHOLARSHIPS

- Achieved **Dean's List Award** in every year from the Faculty of Engineering, University of Rajshahi, Bangladesh in recognition of excellent performance in B.Sc. Engg. Degree.
- Received **NST Fellowship** awards in financial year of **2016-2017** from the Ministry of Science and Technology, People's Republic of Bangladesh, Dhaka, Bangladesh for the M. Sc. Engg. research work.
- Awarded Board Scholarship in Higher Secondary School Certificate examination, held in 2010.
- Awarded Board Scholarship in Secondary School Certificate examination, held in 2008.

## INDUSTRIAL TRAINING

- Successfully completed a nearly three weeks **Internship** from **Bangladesh Telecommunications Company Limited (BTCL)**, Rajshahi, Bangladesh (2015).

## NOTABLE WORKSHOPS

- Participated on a workshop on **Microcontroller**, arranged by Electronics Club of Applied Physics and Electronic Engineering, at the University of Rajshahi (2016).

- Participated on a workshop on **Basic electronics**, arranged by Electronics Club of Applied Physics and Electronic Engineering, at the University of Rajshahi (2014).
- Attended on a workshop on **Wikipedia** organized by Rajshahi University Career Club (RUCC) (2015).
- Participated in workshop on **Database Management System (DBMS) Using MS Access & MS Excel** organized by Electronics Club, Department of Applied physics and Electronic Engineering, University of Rajshahi, Rajshahi (2015).

## **Developed Comprehensive Ideas on**

### **Electrical and Electronic Engineering**

AC power transmission, transmission line, various types of transformer, alternators, AC motors, DC motor and generator, impedance transformation & coupled circuit, AC filter, Microcontroller, digital electronic circuits, various oscillators, multivibrators, power amplifier, encoder and decoder circuits.

### **Power Electronics, Instrumentation and Control system**

Performance parameter, impedance matching and loading, analog & digital transducer, signal generator, oscilloscope, various coupling, open and close loop control, electrical & thermal system, power semiconductor devices, protection of devices and circuits. Multiphase star rectifier, Three phase bridge rectifier, AC voltage controllers and DC chopper, AC and DC power controller.

### **Electronic Devices and Circuits (Design and Construction)**

Fixed regulated DC power supply ( $\pm 5, \pm 12$  volts) and variable regulated DC power supply (0-24 volts) using IC, Transformer design with different voltage and power ratings, Design and construction of A/D and D/A converters, Oscillators (sinusoidal and non-sinusoidal), Design of different types of analog filters.

### **Microprocessor and Microcontroller Interfacing**

C functions and Program Structures for AVR microcontrollers, Interfacing LED, Dot Matrix displays, LCD displays and Logic Circuits, DIP switch interfacing, CISC and RISC architecture, Intel 8085 architecture and instructions, Intel 8051 architecture and instructions.

### **VHDL and FPGA**

Design Flow, Electronic Design Automation, VHDL code structures, Sequential and Concurrent Codes, Logical operations and simulations with VHDL, ALU Design, and Implementation on FPGA.

### **Cellular Mobile Networking**

Cell planning of GSM networks, Design implementation of GSM system (Site survey/evaluation, Integration and Testing), GPRS Technology and Concepts, Background and Basics of EDGE, CDMA System Planning (Link Budgets, Path loss, cell radius and Capacity), PN Offset Planning (Parameters, Challenges Proposed Solution and PN Allocation Methods, CDMA Network Optimization).

### **Computer Networks and Data Communication**

The OSI reference model, TCP/IP reference model, LAN, WAN, Packet switching and Fast packet switching, DNS, IP protocol, IPv4, IPv6, Subnet, Virtual Private Network (VPN), Mobile IP, Network security, SNMP, Router, Switches, DHCP, Wireless LAN protocol, High speed LANs.

## **WiMAX Wireless Networking**

Network Entry and Quality of Service (QoS) Management, Frequency Utilisation and System Profiles Uplink and Downlink Bandwidth Allocation and Request Mechanisms, Protocol Layers and Topologies, Security sublayer components of WiMAX, Frequency Utilization and System Profiles.

## **Wi-Fi Wireless Networking**

Basic concept on Wireless Fidelity (Wi-Fi) network, Wi-Fi frequency bands and channels, Wi-Fi data rates, Deployment of Wi-Fi network with special emphasis on Planning and Design (Network Topology, Throughput, Multipath Fading Tolerance, Protocols, Link Budget calculation, Site surveying, Frequency planning, Equipment Selection, WAN connection and Coverage area extension with antenna selection)

## **Advanced Wireless Communication, Networking and Security**

Fundamentals of Massive MIMO, 4G and 5G wireless networks, Free space optical communication, Cognitive radio system, Vehicular communication, Wireless Application Protocol (WAP), Wireless Personal Area Network (WPAN), Wireless Local Area Network (WLAN), Concept of Internetworking, Congestion control, Resource allocation, Security in wireless systems, Encryption techniques, Network security, Internet security, Firewall design, architecture and implementation.

## **Major Courses Attended in M.Sc. Engg. & B.Sc. Engg.**

■ Advanced Digital Signal Processing ■ Advanced Communication Engineering ■ Advanced Computer Networking ■ Wireless Communication and Networking ■ Network Security and Firewall ■ Communication Engineering ■ Telecommunication Engineering ■ Computer Organization ■ Computer Networks and Data Communication ■ Microprocessor and Microcontrollers ■ Operating Systems and Programming with C & C++ ■ Radio and TV Engineering ■ IC Fabrication and Communication Electronics ■ Pulse and Switching Circuit ■ Digital Electronics ■ Electronic Devices and Circuits ■ Basic Electronics ■ VLSI Design ■ Power Electronics and Control System ■ Electrical Machines Systems and Filter ■ Advanced Biomedical Instrumentation ■ Biomedical and Analytical Instrumentation ■ Basic Solid State Physics and Material Science ■ Condensed Matter Physics ■ Solid State Physics Instrumentation and Acoustic Engineering ■ Quantum Mechanics, Atomic and Nuclear Physics ■ Renewable Energy, Conversion and Storage ■ Non-Conventional Energy ■ Environmental Geophysics ■ Geophysics ■ Applied Geophysics ■ Applied Mechanics and Optics ■ Applied Electricity, Magnetism and Networks ■ Thermodynamics, Refrigeration and Air-conditioning ■ Electromagnetic Theory and Antenna ■ Engineering Graphics.

## **NOTABLE VOLUNTEERING & CO-CURRICULAR ACTIVITIES**

### ➤ **Event Management**

Volunteered to organize a number of events such as:

- ✓ Golden Jubilee of my department, held on December 25-26, 2016
- ✓ Workshops on microcontroller, 2016
- ✓ Fresher's Reception & Farewell, 2014

### ➤ **Membership**

- ✓ Member of Electronics Club of Applied Physics and Electronic Engineering, University of Rajshahi.

### ➤ **Teaching**

- ✓ Have experience in teaching of HSC students

## PERSONAL DETAILS

**Full Name:** Md. Monsur Rahman, **Mother's Name:** Mst. Anju Ara, **Father's Name:** Md. Khalilur Rahman, **Date of Birth (dd-mm-yyyy):** 12-11-1992, **Marital Status:** Unmarried, **Blood Group:** A+, **Nationality:** Bangladeshi (by birth), **National ID No:** 2815285834

## PERMANENT ADDRESS

**House No:** 86, **Road No:** 7/1, **Block No:** C, **Area:** Adarsha Para, **Ward No:** 04; Municipality of Joypurhat, **Post Office:** Joypurhat, **Post Code:** 5900, **Thana:** Joypurhat, **District:** Joypurhat.

## REFERENCES

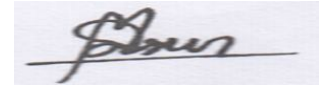
### Dr. M. Babul Islam

Associate Professor & Controller of Examinations  
Dept. of Applied Physics and Electronic  
Engineering  
University of Rajshahi, Rajshahi-6205, Bangladesh  
Mobile No: +88 01713098210  
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### Dr. Md. Ariful Islam Nahid

Professor & Chairman  
Dept. of Applied Physics and Electronic  
Engineering  
University of Rajshahi, Rajshahi-6205,  
Bangladesh  
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Email : mainahid@ru.ac.bd

I, the undersigned certify that, according to my knowledge and belief, this Resume correctly describes my qualifications and myself. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if employed.



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(Md. Monsur Rahman)