Md. Omar Faruk Noman

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🏠 A-96/2 Bank colony, Savar, Dhaka

CAREER OBJECTIVE

To obtain a teaching position where I can share my theoretical and practical knowledge with students and strengthen their enthusiasm and level of creativity.

EDUCATIONAL QUALIFICATION

BACHELOR OF SCIENCE   **2017 - 2022**
Electronics and Telecommunication Engineering (ETE)
Chittagong University of Engineering & Technology (CUET), Chattogram
Result: CGPA 3.71 out of 4.00

HIGHER SECONDARY CERTIFICATE   **2014 - 2016**
Dhaka Residential Model College, Dhaka
Result: GPA 5.00 out of 5.00

SECONDARY SCHOOL CERTIFICATE   **2012 - 2014**
Dhaka Residential Model College
Result: GPA 5.00 out of 5.00

UNDERGRADUATE THESIS

- **Dual Band Microstrip Patch Antenna for 5G Applications.**
  Designed a patch antenna with dual band characteristics and compact size that can be used in 5G capable devices.
  Tools: CST Microwave Studio.

PROJECTS

1. **Exploring Machine Learning Algorithms and Neural Network to Solve Real World Problems.**
   Applied various regression and classification algorithms such as linear regression, logistic regression, decision tree, random forest, K nearest neighbor etc to solve real world problem.
   Tools: Google Colab, Python.

2. **Vehicle Estimation for Traffic Control Using Image Processing.**
   Designed an image processing-based traffic system that successfully detected number of vehicles with very high accuracy.
   Tools: MATLAB.

3. **Design of Animated Website and a Portfolio.**
   Developed a complete website where people can watch animated series of different genre and get the latest updates of different series.
   Tools: HTML, CSS, PHP, SQL.

4. **Design of a Network Topology and Configure It in RIP Routing Protocol.**
   A complete network topology has been designed with routers, switches, hubs and end elements. The system has been configured with RIP routing protocol.
   Tools: Cisco Packet Tracer.

5. **Design of a Four-Way Traffic Control System Using Microcontroller.**
   A microcontroller-based system has been designed to successfully control traffic in a four-way lane.
   Tools: Microcontroller, MikroC Pro, LED.

6. **FM Radio Transmitter and Receiver.**
   Implemented a radio transmitter for generating and transmitting radio wave. A receiver circuit with automatic gain control system is also designed to receive the transmitted signal successfully.
   Tools: Transistor, Resistor, Capacitor, Inductor, Potentiometer, Antenna, Condenser Mic.

7. **IOT Based Home Automation System.**
   Designed an IOT based home automation system for controlling different electronic products such as TV, fan, light using human voice.
   Tools: Resistor, Capacitor, Potentiometer, Op-amp.

8. **Implementation of Function Generator with Over Voltage Protection.**
   Designed a circuit to generate different type of waves along with over voltage protection.
   Tools: LM7805 IC, Resistor, Capacitor, Potentiometer, Op-amp.

INDUSTRIAL TOUR

- **BNS Shaheed Moazzem, Kaptai, Rangamati.**

RESEARCH & TEACHING INTEREST

- **Antenna and Wave Propagation**
- **Electronics**
- **VLSI Technology**
- **Digital Logic Design.**
- **Analog and Digital Communication**
- **Optical Fiber Communication**
- **Wireless Communication**
- **Microwave Engineering**
- **Computer Networking**
- **Neural and Fuzzy System**
- **Web Programming**
- **Signals and System**
- **Microprocessor & Microcontroller**
- **Neural Network & Fuzzy Systems**
- **Image Processing**

SKILLS

Languages	: C, C++, MATLAB, Python.
Web programming	: HTML, CSS, PHP, SQL, WordPress.
Tools	: CST Microwave Studio, Cadence, Cisco Packet Tracer, Wireshark, Proteus, Google colab, NetBeans.
Algorithms	: Machine Learning, Neural Network.
Software	: Microsoft word, Microsoft Excel, Microsoft PowerPoint, Codeblocks.
Hardware	: Microcontroller, Arduino.

PERSONAL ATTRIBUTES

- Very good logical and analytical skills.
- Ability to communicate and deal with stressful situation in a professional manner.
- Expert at multi-tasking.

LINGUAL PROFFICIENCY

- **Bangla**(Native proficiency)
- **English**(Complete professional fluency)

ACHIEVEMENTS

- **Technical Scholarship:** For obtaining outstanding CGPA in all semesters in CUET.
- **Government Scholarship**: For obtaining outstanding GPA in secondary school certificate (SSC) and junior school certificate (JSC).
- **Best Project Award:** For image processing-based project.

EXTRA-CURRICULAR

1. Assistant Office Secretary, CUET Remians' Association.
2. Champion, Intra Hall Cricket Tournament.
3. Executive member, DRMC Science Club.

PERSONAL INFORMATION

Name	: Md. Omar Faruk Noman.
Date of Birth	: 10th August, 1998.
Gender	: Male.
Nationality	: Bangladeshi.
Address	: A-96/2 Bank colony, Savar, Dhaka.
Attributes	: Positive, Enthusiastic, Diligent.
Hobbies	: Teaching, Reading, Travelling.

REFERENCE

Dr. Md. Azad Hossain.
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DECLARATION

I do hereby declare that the statements made in this document are true to the best of my knowledge and belief.

Noman

MD. OMAR FARUK NOMAN