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

PUBLICATIONS (Ongoing)

- **Design of a Miniaturized Dual-Band Rectangular Patch Antenna for 5G Millimeter-Wave Applications,** Md. Omar Faruk Noman, Md. Azad Hossain.
  Status: Under review (Submitted to IEEE conference on Sustainable Technologies for Industry 4.0)

- **Design of a Slotted Patch Circular Antenna Array for Breast Tumor Identification,** Ishrat Jahan, Md. Omar Faruk Noman, Md Ahasan Kabir.
  Status: Under review (Submitted to IEEE conference on Sustainable Technologies for Industry 4.0)

PROJECTS

1. **Microstrip Patch Antenna for Brain Tumor Detection.**
   Designed a Microstip patch antenna with dimension of $45 \times 38 \text{ mm}^2$ in order to detect the presence of tumor in brain. E-field, H-field and current density were analyzed to detect the tumor. SAR analysis for 1g and 10g tissue was also done.
   Tools: CST Microwave Studio.
   Supervisor: Dr. Md. Azad Hossain, ETE, CUET.
2. **Vehicle Estimation for Traffic Control.**
   Designed a traffic control system for calculating number of vehicles on the road using image processing.
   Tools: MATLAB.
   Supervisor: Md Ahasan Kabir, ETE, CUET.

3. **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: Arduino, Bluetooth Module HC-05, Relay, Temperature Sensor, LEDs.
   Supervisor: Md Ahasan Kabir, ETE, CUET.

4. **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, Capacitor, Inductor, Potentiometer, Antenna, Condenser Mic.

5. **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.
   Tools: Cisco Packet Tracer.

6. **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.

7. **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.

8. **Exploring Machine Learning Algorithms and Neural Network to Solve Real World Problems.**
   Applied various regression and classification algorithms to solve real world problem.
   Tools: Google Colab, Python.

INDUSTRIAL TOUR

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

RESEARCH & TEACHING INTEREST

- **Antenna and Wave Propagation**
- **Analog and Digital Electronics**
- **VLSI Technology**
- **Analog and Digital Communication**
- **Optical Fiber Communication**
- **Internet Programming**

- **Signals and System**
- **Digital Signal Processing**
- **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**(Full professional fluency)

ACHIEVEMENTS

- **Merit-based 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

- Assistant Office Secretary, CUET Remians' Association.
- Champion, Intra Hall Cricket Tournament.
- 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.
Professor, ETE, CUET
📞 +8801783756981
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Dr. Md. Saiful Islam.
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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