

# Md. Raihan

B.Sc. (Electrical & Electronic Engineering)

<https://mraihaanee.wixsite.com/raihan-site>



**Mobile:** +8801852159153

**Email:** [mohammedraihan133@gmail.com](mailto:mohammedraihan133@gmail.com),

**Address:** Shikalbaha, Karnaphuli, Word Number: 7, P.O: Master hut (4373), Chattogram.

## Career Objective:

As an engineer, I want to use my creative skills, technologies that I am familiar with, and innovative thoughts that will benefit the organization in the long run and also help me build my professional career.

## Key Qualification:

Self-motivated, honest, energetic and able to work independently and efficiently with problem-solving capability as a human.

## Academic Qualification

| Degree   | Institution                                 | Result            |
|--|---|-------------------|
| ❖ Bachelor of science in Electrical and Electronic Engineering | International Islamic University Chittagong | 3.768 out of 4.00 |
| ❖ Higher secondary H.S.C                                       | Patiya Govt. College                        | 4.42 out of 5.00  |
| ❖ Secondary S.S.C  | Chittagong Ideal School &College            | 5.00 out of 5.00  |

## Experience

- ❖ **Research Assistant: (Dec 2023- Present)** Assisting research in collaboration with Universiti Kebangsaan Malaysia (UKM) with Mohiuddin Solaiman graduate research assistant and dr. Mohammad Tariqul Islam Professor at UKM.

**Skills:** Problem solving, Data validation, Paper writing, Research, Excel management.

- ❖ **Teaching Assistant: (Jan. 2023- June 2023)** Act as teaching assistant for Dr. Yasir Arafat Professor of EEE at IIUC in machine II.

**Skills:** Teaching, grading, conducting lab experiment, Lab equipment handling and error finding.

- ❖ **Research Assistant: (Dec 2022- Dec. 2023)** Assisted in research dr. Saif Hannan Assistant Professor of Electronic and Telecommunication Engineering (ETE) at International Islamic University Chittagong (IIUC)

**Skills:** Conducting research, Paper drafting, Problem solving, Data management. Software.

## Thesis and Publications

|                     |   |
|---------------------|---|
| <b>Thesis Title</b> | ❖ Octagonal Flower-Shaped Polarization Insensitive Metamaterial Absorber for Solar Harvesting Application<br>Published in Applied Physics A . <a href="http://dx.doi.org/10.1007/s00339-024-07513-8">http://dx.doi.org/10.1007/s00339-024-07513-8</a> |
| <b>Published</b>    | ❖ “A Novel Dynamic Logic Circuit with Low Leakage Power and Propagation Delay”  |

Doi: <http://dx.doi.org/10.1109/INCET54531.2022.9825066>

- ❖ Octagonal Enclosed Octagonal-Shaped Metamaterial Absorber based on SiO<sub>2</sub> for the Infrared Region (**ICONSPACE 2023 Conference Malaysia, Paper**) [http://dx.doi.org/10.1007/978-981-97-0142-1\\_17](http://dx.doi.org/10.1007/978-981-97-0142-1_17)

- ❖ A Highly Efficient Wide-Angle Symmetric Meta-Absorber in Visible to Near-Infrared <http://dx.doi.org/10.1109/iCACCESS61735.2024.10499621>

**Under review**

- ❖ Shield Pattern of Martii-Shaped Metamaterial Absorber with Polarization-Insensitive for Optical Regime (**journal: Results in Physics-RINP-D-24-01850**)

### Industrial Training

| Training Title                                       | Topic   | Institution   | Duration |
|--|---|---|----------|
| ❖ Industrial tour at Kaptai 230 MW Hydro power plant | Operation and Maintenance of Hydro power plant.   | Kaptai Hydro Power Plant                              | One Day  |
| ❖ Industrial Training                                | Distribution Transformers   | General Electric Manufacturing Co. Ltd.               | 10 Days  |
| ❖ Industrial Visit                                   | Components of a Grid Substation, Transformer operation and safety, Control panel and Safety of Substation | Halishahor 132/33 KV Grid Substation (Genertec CNTIC) | 1 Day    |
| ❖ Industrial Visit                                   | Safety precaution of Substation, Switchgear,  | Srimongol PGCB Substation                             | 1 Day    |

### Soft Skills

**OS:** Windows (XP, 7,10 and 11)

**Software:** MikroC Pro, Proteus, PSIM, MATLAB/Simulink, SCAPS-1D, CST, HFSS

**Programming:** C/C++ (Basic), python(basic), HTML5 (basic), CSS(basic)

**Typography:** LaTeX, Microsoft Office (Word, Excel, PowerPoint).

### Language Skill:

- ❖ Bengali: Native Proficiency.
- ❖ English: Professional Working Proficiency.
- ❖ Deutsche(German) A1 learning ongoing

### References:

Name : **Dr. Yasir Arafat**  
Organization : International Islamic University Chittagong  
Designation : Chairman Department of EEE  
Mobile : +8801818276205  
E-Mail : yaeeiiuc@gmail.com  
Relation : Academic

Name : **Dr. Saif Hannan**  
Organization : International Islamic University Chittagong  
Designation : Associate Professor  
Mobile : +880182803907  
E-Mail : sh@iiuc.ac.bd  
Relation : Academic

**Declaration:**

I have provided in the CV all information's are true to the best of my knowledge and conviction.

A handwritten signature in black ink, reading "Md. Raihan". The signature is written in a cursive style with a large, stylized 'M' and 'R'.

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Signature (Md Raihan)