



## Md. Mostafa Faruk

**Date of birth:** 11/12/1998

**Nationality:** Bangladeshi

### CONTACT

📍 Sher Shah Shuri Road,  
Mohammadpur, Dhaka 1207,  
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1207, Dhaka, Bangladesh  
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### WORK EXPERIENCE

**08/2018 – 12/2019** Dhaka, Bangladesh

**Teaching Assistant** Independent University, Bangladesh

- EEE 211L – Electrical Circuit Lab - Autumn, 2018
- EEE 221L – Electronics Lab - Autumn, 2019

**04/2019 – 03/2020** Dhaka, Bangladesh

**Math Learning Center Instructor** Independent University, Bangladesh

- Mat 111 – Differential Calculus
- Mat 131 – Integral Calculus

### EDUCATION AND TRAINING

**01/09/2023 – CURRENT** Köln, Germany

**M.Sc. in Communication Systems and Networks** Technische Universität Köln

**31/12/2016 – 30/12/2020** Dhaka, Bangladesh

**B.Sc. in Electrical & Electronic Engineering** Independent University, Bangladesh

■ **CGPA: 3.71 on a scale of 4.0**

Undergraduate Thesis Title: Impact of Total Harmonic Distortion and Power Factor Correction on the Performance of a Power Factor Correction Circuit.

**06/2014 – 07/2016** Dhaka, , Bangladesh

**Higher Secondary Certificate (HSC)** Holy Child College

■ **GPA: 5.00 on a scale of 5.0**

**Address** Dhaka Board, Dhaka, , Bangladesh

**12/2011 – 03/2014** Dhaka, , Bangladesh

**Secondary School Certificate (SSC)** Holy Child College

■ **GPA: 5.00 on a scale of 5.0**

**Address** Dhaka Board, Dhaka, , Bangladesh

### LANGUAGE SKILLS

**MOTHER TONGUE(S):** Bangla

**Other language(s):**

**English**

**Listening** C1

**Reading** C1

**Writing** C1

**Spoken production** B2

**Spoken interaction** B2

**German**

**Listening** A1

**Reading** A1

**Spoken production** A1

**Spoken interaction** A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

Microsoft Office | Microsoft Word | Microsoft Powerpoint | Microsoft Excel | Google Docs | Basic of Python  
| MATLAB&Simulink | Proteus and Multisim: Tools for Circuit designing | Organizational and planning skills

## ADDITIONAL INFORMATION

### Publications

● **Highly Nonlinear Bored Core Hexagonal Photonic Crystal Fiber (BC-HPCF) With Ultra-high Negative Dispersion for Fiber Optic Transmission System.**

2019

Frontiers of Optoelectronics, 2019. (Journal).

Authors: **Md. Mostafa Faruk**, Nazifa Tabassum Khan, S. K. Biswas

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● **Design and Analysis of Highly Non-linear Dispersion Compensating Photonic Crystal Fiber using Square-Lattice Geometry**

2019

International Technical Conference of IEEE Region 10 (TENCON), 2019, Kochi, Kerala, October 17-20, 2019 (indexed in IEEE Xplore).

Authors: **Md. Mostafa Faruk**, Md. Abid Hossain, Mahfuj Rahman, Md. Sabuj Miah, Shovasis Kumar Biswas.

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● **Ultra-high birefringence and highly nonlinear dispersion compensating square photonic crystal fiber for fiber optic transmission systems: Design and analysis.**

2019

10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Kanpur, India, 6-8 July 2019 (indexed in IEEE Xplore).

Authors: **Md. Mostafa Faruk**, Md. Abid Hossain, Mahfuj Rahman and Shovasis Kumar Biswas

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● **Ultra-high Negative Dispersion Compensating Index Guiding Single Mode Octagonal Photonic Crystal Fiber: Design and Analysis**

2019

2nd IEEE International Conference on Innovation in Power and Advanced Computing Techniques (iPACT 2019), Vellore Institute of Technology, India, 22-23 March 2019 (indexed in IEEE Xplore).

Authors: **Md. Mostafa Faruk**, Md. Rubayet Islam, S. M. Rakibul Islam, Mashfique Ahmed, Md. Sabuj Miah and Shovasis Kumar Biswas

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● **Analysis of Dispersion and Nonlinear Property in Defected Core Square Photonic Crystal Fiber**

2018

9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), pp. 1-5. IEEE, 2018. (indexed in IEEE Xplore)

Authors: Islam, Md Rubayet, SM Rakibul Islam, Mashfique Ahmed, Fahim Ahmed, **Md Mostafa Faruk**, and Shovasis Kumar Biswas

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● **Numerical Study of Rectangular Air-Holes Based Highly Dispersion Compensating Octagonal Photonic Crystal Fiber: A Novel Approach.**

2020

11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)

Authors: Delwar Hossain Himel, **Md Mostafa Faruk**, Shovasis Kumar Biswas

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## Honours and awards

2017 Independent University, Bangladesh

Merit Scholarship (Academic Board)

2014 Dhaka Education Board

Dhaka Board Scholarship (SSC)

## Co-Curricular Experience

31/12/2018 – 30/12/2019

Chair, IEEE IUB Student Branch

05/2019 – 03/2020

Event Coordinator, IEEE Bangladesh Section Student Activity Committee

## References

Dr. Md. Abdur Razzak

### Professor

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Independent University, Bangladesh  
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Dr. Feroz Ahmed

### Professor

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