Dr. Sajid Muhaimin Choudhury

Associate Professor, Department of EEE, BUET

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Brief Biography

Dr. Sajid Choudhury is an Associate Professor in the Department of EEE, BUET. He completed his Ph.D. from Purdue University, IN, USA. His current research interest is in Photonic Quantum Computing, Photovoltaic Cells, Flat Optics with Metasurface, Photonic Devices with Phase Change Materials, Embedded Systems Design. Dr. Choudhury is a senior member of the IEEE, immediate-past-chair, IEEE Photonics Society Bangladesh Chapter, founding President, The Optica Bangladesh Section. He is a member of the National Young Academy of Bangladesh (NYAB).

Experience

Associate Professor, Department of Electrical and Electronic Engineering (EEE) — July 2022 – to date
Bangladesh University of Engineering and Technology (BUET)

Assistant Professor, Department of Electrical and Electronic Engineering (EEE) — June 2013 – July 2022
Bangladesh University of Engineering and Technology (BUET)

Lecturer, Department of Electrical and Electronic Engineering (EEE) — Jan 2010 – June 2013
Bangladesh University of Engineering and Technology (BUET)

Lecturer, Institute of Information and Communication Technology (IICT) — Nov 2009 – Jan 2010
Bangladesh University of Engineering and Technology (BUET)

Education

Ph.D. — **Purdue University**, West Lafayette, IN, USA — Aug 2013 – Aug 2019
School of Electrical and Computer Engineering

- **Ph.D. Thesis:** WAVEFRONT MANIPULATION WITH META-SURFACES BASED ON NEW MATERIALS
- **Ph.D. Co-supervisor(s):** Alexandra Boltasseva and Alexander Kildishev

M.Sc. — **Bangladesh University of Engineeing and Technology (BUET)** — Aug 2011 – 2013
Department of Electrical and Electronic Engineering

- **M.Sc. Engg. Thesis:** Design of a Fractal Antenna based on Hexaflake Fractal Structure
- **M.Sc. Engg. Supervisor:** Dr. M. A. Matin

B.Sc. — **Bangladesh University of Engineeing and Technology (BUET)** — Dec 2004 – Aug 2010
Department of Electrical and Electronic Engineering

- CGPA: 3.94/4.0
- **Undergraduate Thesis:** Design and Analysis of a Multiband Dual Feed Axially Symmetric Cassegrain Antenna System
- **Undergraduate Supervisor:** Dr. M. A. Matin

H.S.C. — **Notre Dame College**, Dhaka — 2004

- GPA: 5.00/5.00

S.S.C. — **Udayan Uchchya Madhyamic Bidyalaya**, Dhaka — 2002

- GPA: 5.00/5.00

Details of Publications from 20/05/2024 to 21/05/2025

Details of Publications since last appointment

Details of Important design/research projects from 20/05/2024 to 21/05/2025

Postgraduate thesis supervised

- Md Asif Hossain Bhuiyan, M.Sc. Engg. (May 2025) **Polarization Insensitive Electrically Reconfigurable Metasurface For Metalensing At Near Infrared Waveband**
- Md. Mahfuzul Haque, M.Sc. Engg. (Jan 2025) **Design Of Silicon-carbide Based Single-quantum-well White LED**
- Md. Ehsanul Karim, M.Sc. Engg. (June 2024) **Phase Change Material Based Broadband Multifunctional Metasurface for the Visible Range**
- Shamima Akter Mitu M.Sc. Engg. (May 2023) **Design of an All-optical Plasmonic Modulator for Two Micrometer Waveband**

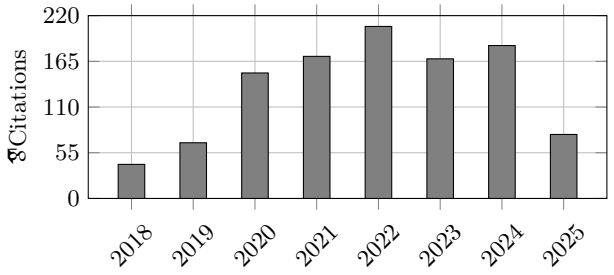
Complete List of Publications

Publications Metrics

(a) Google Scholar Metrics

Total Citations	1133
h-index	13
i10-index	10

(b) Google Scholar Citations per Year



Journal Articles

[J26] Md. Mahfuzul Haque, Md. Rasidul Islam, and Sajid Muhaimin Choudhury. "Investigation of the physical properties through strain effect of monolayer silicon carbide material: DFT analysis". In: *Physica B: Condensed Matter* 697 (2025), p. 416670. 10.1016/j.physb.2024.416670. SJR **Q2**(IF **2.4**).

[J25] Md. Ehsanul Karim, Md. Redwanul Karim, and Sajid Muhaimin Choudhury. "Synergizing deep learning and phase change materials for four-state broadband multifunctional metasurfaces in the visible range". In: *Optics & Laser Technology* 181 (2025), p. 111730. 10.1016/j.optlastec.2024.111730. Citations: **1**, SJR **Q1**(IF **5.2**).

[J24] Soikot Sarkar and Sajid Muhaimin Choudhury. "Efficiency enhancement of c-Si/TiO2 heterojunction thin film solar cell using hybrid metal-dielectric nanostructures". In: *Solar Energy* 296 (2025), p. 113535. 10.1016/j.solener.2025.113535. URL: https://www.sciencedirect.com/science/article/pii/S0038092X25002981. SJR **Q1**(IF **6.47**).

[J23] Ayon Sarker and Sajid Muhaimin Choudhury. "Concentric annular-hexagonal plasmonic resonator with nanorod vertices for dual-band absorption in NIR and MIR for sensing applications". In: *Opt. Continuum* 4.5 (May 2025), pp. 1159–1173. 10.1364/OPTCON.558501. URL: https://opg.optica.org/optcon/abstract.cfm?URI=optcon-4-5-1159. SJR **Q3**(IF **1.1**).

[J22] Md. Asif Hossain Bhuiyan, Purbayan Das, and Sajid Muhaimin Choudhury. "Polarization insensitive electrically reconfigurable meta-lens for the 2 μm wavelength". In: *Opt. Mater. Express* 14.12 (Dec. 2024), pp. 2830–2843. 10.1364/OME.540435. SJR **Q2**(IF **2.8**).

[J21] Md. Ehsanul Karim and Sajid Muhaimin Choudhury. "Sb2S3/AlGaAs based Reconfigurable Metasurface for Dynamic Polarization and Directionality Control of Quantum Emitter Emission". In: *RSC Advances* 40 (2024). 10.1039/D4RA03726J. SJR **Q1**(IF **3.9**).

[J20] Prithu Mahmud, Kaniz Fatema Supti, and Sajid Muhaimin Choudhury. "Lithium niobate photonic topological insulator-based multi-wavelength optical demultiplexer with piezoelectric switch-off". In: *Opt. Express* 32.26 (Dec. 2024), pp. 45786–45800. 10.1364/OE.541271. SJR **Q1**(IF **3.2**).

[J19] Mehedi Hasan Himel, Bejoy Sikder, Tanvir Ahmed, and Sajid Muhaimin Choudhury. "Biomimicry in Nanotechnology: A Comprehensive Review". In: *NanoScale Advances* 5 (2023), pp. 595–614. 10.1039/D2NA00571A. Citations: **22**, SJR **Q1**(IF **5.6**).

[J18] Md. Ehsanul Karim and Sajid Muhaimin Choudhury. "Reconfigurable Broadband Metasurface with Switchable Functionalities in the Visible Range". In: *Optical Materials Express* 13.5 (2023), pp. 1409–1423. 10.1364/OME.489981. Citations: **5**, SJR **Q2**(IF **2.8**).

[J17] Md Asif Hossain Bhuiyan, Shamima Akter Mitu, and Sajid Muhaimin Choudhury. "TiN-GST-TiN all-optical reflection modulator for the 2μm wave band reaching 85% efficiency". In: *Applied Optics* 61 (2022), pp. 9262–9270. 10.1364/AO.470247. Citations: **3**, SJR **Q2**(IF **2.08**).

[J16] Himaddri Roy, Ehsanul Karim, Sujoy Mondal, and Sajid Muhaimin Choudhury. "Custom Gold-Patterned Rewritable Optical Disc based Plasmonic Sensor for Blood Hemoglobin Detection". In: *Optics Continuum* 1.10 (2022). 10.1364/OPTCON.473106. Citations: **1**, SJR **Q3**(IF **1.1**).

[J15] Yasir Fatha Abed, Md Asif Hossain Bhuiyan, and Sajid Muhaimin Choudhury. "T Grating on Nano-Cavity Array based Refractive Index Sensor". In: *J. Opt. Soc. Am. B* 39.9 (2021). 10.1364/JOSAB.426526. Citations: **1**, SJR **Q2**(IF **2.18**).

[J14] Mohammad Muntasir Hassan, Farhan Sadik Sium, Fariba Islam, and Sajid Muhaimin Choudhury. "A Review on Plasmonic Nano-biosensors for Virus Detection with a Focus on Coronavirus". In: *Sensing and Bio-Sensing Research* 33 (2021), p. 100429. 10.1016/j.sbsr.2021.100429. Citations: **69**, SJR **Q2**(IF **4.42**).

[J13] Ayon Sarker, Shamima Akter Mitu, Purbayan Das, and Sajid Muhaimin Choudhury. "Structurally Tunable Gear-Shaped Plasmonic Sensor". In: *Optics Express* 28.24 (2020), pp. 36070–36083. 10.1364/OE.410123. Citations: **13**, SJR **Q1**(IF **3.67**).

[J12] Huan Jiang, Sajid Muhaimin Choudhury, Zhaxylyk A Kudyshev, Di Wang, Peng Xiao, Yongyuan Jiang, and Alexander V Kildishev. "Enhancing sensitivity to ambient refractive index with tunable few-layer graphene/hBN nanoribbons". In: *Photonics Research* 7.7 (2019), pp. 815–822. 10.1364/PRJ.7.000815. Citations: **36**, SJR **Q1**(IF **7.37**).

[J11] Huan Jiang, Harsha Reddy, Deesha Shah, Zhaxylyk A Kudyshev, Sajid Muhaimin Choudhury, Di Wang, Yongyuan Jiang, and Alexander V Kildishev. "Modulating Phase by Metasurfaces with Gated Ultra-thin TiN Films". In: *Nanoscale* 11 (2019), pp. 11167–11172. 10.1039/C9NR00205G. Citations: **10**, SJR **Q1**(IF **6.62**).

[J10] Oscar Quevedo-Teruel, Hongsheng Chen, Ana Díaz-Rubio, Gurkan Gok, Anthony Grbic, Gabriele Minatti, Enrica Martini, Stefano Maci, George V Eleftheriades, Michael Chen, Nikolay I Zheludev, Nikitas Papasimakis, Sajid Muhaimin Choudhury, Zhaxylyk A Kudyshev, Soham Saha, Harsha Reddy, Alexandra Boltasseva, Vladimir M Shalaev, Alexander V Kildishev, Daniel Sievenpiper, Christophe Caloz, Andrea Alù, Qiong He, Lei Zhou, Guido Valerio, Eva Rajo-Iglesias, Zvonimir Sipus, Francisco Mesa, Raul Rodríguez-Berral, Francisco Medina, Victor Asadchy, Sergei Tretyakov, and Christophe Craeye. "Roadmap on metasurfaces". In: *Journal of Optics* 21.7 (2019), p. 073002. 10.1088/2040-8986/ab161d. Citations: **278**, SJR **Q2**(IF **2.66**).

[J9] Maowen Song, Di Wang, Samuel Peana, Sajid Muhaimin Choudhury, Piotr Nyga, Zhaxylyk A. Kudyshev, Honglin Yu, Alexandra Boltasseva, Vladimir M. Shalaev, and Alexander V. Kildishev. "Colors with plasmonic nanostructures: A full-spectrum review". In: *Applied Physics Reviews* 6 (2019), p. 041308. 10.1063/1.5110051. Citations: **215**, SJR **Q1**(IF **16.30**).

[J8] Sajid Muhaimin Choudhury, Di Wang, Krishnakali Chaudhuri, Clayton DeVault, Alexander V Kildishev, Alexandra Boltasseva, and Vladimir M Shalaev. "Material platforms for optical metasurfaces". In: *Nanophotonics* 7.6 (2018), pp. 959–987. 10.1515/nanoph-2017-0130. Citations: **167**, SJR **Q1**(IF **8.09**).

[J7] Sajid Muhaimin Choudhury, Urcan Guler, Amr Shaltout, Vladimir M. Shalaev, Alexander V. Kildishev, and Alexandra Boltasseva. "Pancharatnam–Berry Phase Manipulating Metasurface for Visible Color Hologram Based on Low Loss Silver Thin Film". In: *Advanced Optical Materials* 5 (2017), p. 1700196. 10.1002/adom.201700196. Citations: **83**, SJR **Q1**(IF **8.70**).

[J6] Vladimir A. Zenin, Sajid Muhaimin Choudhury, Soham Saha, Vladimir M. Shalaev, Alexandra Boltasseva, and Sergey I. Bozhevolnyi. "Hybrid plasmonic waveguides formed by metal coating of dielectric ridges". In: *Optics Express* 25.11 (2017), pp. 12295–12302. 10.1364/OE.25.012295. Citations: **37**, SJR **Q1**(IF **3.67**).

[J5] Jongbum Kim, Sajid Muhaimin Choudhury, Clayton DeVault, Yang Zhao, Alexander V Kildishev, Vladimir M Shalaev, Andrea Alù, and Alexandra Boltasseva. "Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface". In: *ACS Nano* 10.10 (2016), pp. 9326–9333. 10.1021/acsnano.6b03937. Citations: **75**, SJR **Q1**(IF **15.82**).

[J4] Sajid Muhaimin Choudhury and MA Matin. "Multiport Analysis of Hexagonal Patch Antenna". In: *IJECCT* 3.3 (2013). URL: https://journal.uniten.edu.my/index.php/ijecct/article/view/58. Citations: **1**,

[J3] Md Gaffar, MA Zaman, SM Choudhury, and Md A Matin. "Design and optimisation of a novel dual-band circularly polarised microstrip antenna". In: *IET Microwaves and Antennas & Propagation* 5.14 (2011), pp. 1670–1674. 10.1049/iet-map.2010.0050. Citations: **10**, SJR **Q2**(IF **2.70**).

[J2] MA Zaman, SA Mamun, Md Gaffar, SM Choudhury, Md M Alam, and Md Matin. "Phased Array Synthesis Using Modified Particle Swarm Optimization". In: *Journal of Engineering Science & Technology Review* 4.1 (2011). 10.25103/jestr.041.10. Citations: **18**, SJR **Q3**(IF **1.6**).

[J1] Mohammad Asif Zaman, Md Gaffar, Md Mushfiqul Alam, Sayed Ashraf Mamun, Sajid Muhaimin Choudhury, and MA Matin. "Approximate Closed-Form Expression of the Electric Field of a Conical Horn Antenna". In: *International Journal of Computer and Electrical Engineering* 3.1 (2011), p. 48. URL: http://ijcee.org/papers/291-E337.pdf.

Conference Proceedings

[C22] Mohammad Tahsin Alam, Yasir Mahmud, Zafrin Jahan Nikita, and Sajid Muhaimin Choudhury. "Gesture Controlled Bot with Temperature & Humidity (TH) Sensing Features". In: *2024 2nd International Conference on Information and Communication Technology (ICICT)*. 2024, pp. 36–40. 10.1109/ICICT64387.2024.10839649.

[C21] Md Asif Hossain Bhuiyan, Shamima Akter Mitu, and Sajid Muhaimin Choudhury. "VO2-based All-optical Reflection Modulator for 2μm Wave Band". In: *2023 IEEE Photonics Conference (IPC)*. 2023, pp. 1–2. 10.1109/IPC57732.2023.10360477 Citations: **1**,

[C20] Saleh Ahmed Khan, Sadat Tahmeed Azad, Tiasa Mondal, Abdullah Jubair Bin Iqbal, and Sajid Muhaimin Choudhury. "Development of an Internet of Things based Bangla Calendar Clock". In: *2023 26th International Conference on Computer and Information Technology (ICCIT)*. 2023, pp. 1–6. 10.1109/ICCIT60459.2023.10441436.

[C19] Abdul Mukit, Md Sabbir Hossen Bijoy, Sajid Muhaimin Choudhury, and Md Tareq Mahmud. "Discrete Modulated Continuous-Variable Quantum Key Distribution: Security and Noise Tolerance Enhanced by Decoy States and Effective Error Correction Protocol Integration". In: *2023 IEEE International Conference on Telecommunications and Photonics (ICTP)*. 2023, pp. 1–5. 10.1109/ICTP60248.2023.10490525.

[C18] Kushol Roy Pritom, Md. Ehsanul Karim, and Sajid Muhaimin Choudhury. "A Polarization Insensitive Achromatic Metalens Operating at Two Wavelengths in Visible Regime". In: *2023 IEEE International Conference on Telecommunications and Photonics (ICTP)*. 2023, pp. 01–05. 10.1109/ICTP60248.2023.10491019 Citations: **1**,

[C17] Soikot Sarkar and Sajid Muhaimin Choudhury. "Design and Performance Analysis of a c-Si Thin-Film Solar Cell Using Plasmonic Ag Nanostructures". In: *2023 IEEE International Conference on Telecommunications and Photonics (ICTP)*. 2023, pp. 01–05. 10.1109/ICTP60248.2023.10490886.

[C16] Zhaxylyk A. Kudyshev, Ludmila J. Prokopeva, Maowen Song, Sajid Muhaimin Choudhury, and Alexander V. Kildishev. "Bi-anisotropic homogenization for efficient metasurface design (invited)". In: *2018 International Applied Computational Electromagnetics Society Symposium (ACES)*. 2018, pp. 1–2. 10.23919/ROPACES.2018.8364134.

[C15] Sajid Muhaimin Choudhury, Vladimir A. Zenin, Soham Saha, Vladimir M. Shalaev, Sergei Bozhevolnyi, and Alexandra Boltasseva. "Novel Hard Mask Fabrication Method for Hybrid Plasmonic Waveguide and Metasurfaces". In: *Frontiers in Optics 2017*. Optica Publishing Group, 2017, JTu2A.12. 10.1364/FIO.2017.JTu2A.12.

[C14] Sajid Muhaimin Choudhury, Amr Shaltout, Vladimir M. Shalaev, Alexander V. Kildishev, and Alexandra Boltasseva. "Experimental Realization of Color Hologram Using Pancharatnam-Berry Phase Manipulating Metasurface". In: *Conference on Lasers and Electro-Optics*. Optica Publishing Group, 2016, FF1D.8. 10.1364/CLEO_QELS.2016.FF1D.8 Citations: 2,

[C13] Sajid Muhaimin Choudhury, Amr Shaltout, Vladimir M. Shalaev, Alexandra Boltasseva, and Alexander V. Kildishev. "Color Hologram Generation Using a Pancharatnam-Berry Phase Manipulating Metasurface". In: *CLEO: 2015*. Optica Publishing Group, 2015, JTu5A.89. 10.1364/CLEO_AT.2015.JTu5A.89 Citations: 3,

[C12] Parvez Ahmmed, Zabir Ahmed, Mohammad Ishfaque Jahan Rafee, M A Awal, and Sajid Muhaimin Choudhury. "Self-localization of a mobile robot using monocular vision of a chessboard pattern". In: *8th International Conference on Electrical and Computer Engineering*. 2014, pp. 753–756. 10.1109/ICECE.2014.7026828 Citations: 7,

[C11] Jongbum Kim, Babak Memarzadeh, Aveek Dutta, Sajid Muhaimin Choudhury, Alexander V. Kildishev, Hossein Mosallaei, and Alexandra Boltasseva. "GZO/ZnO Multilayered nanodisk metasurface to engineer the plasma frequency". In: *CLEO: 2014*. Optica Publishing Group, 2014, FW1K.4. 10.1364/CLEO_QELS.2014.FW1K.4 Citations: 2,

[C10] Jongbum Kim, Yang Zhao, Aveek Dutta, Sajid Muhaimin Choudhury, Alexander V. Kildishev, Andrea Alu, and Alexandra Boltasseva. "Nanostructured Transparent Conducting Oxide Films for Polarization Control with Plasmonic Metasurfaces". In: *CLEO: 2014*. Optica Publishing Group, 2014, FF2C.2. 10.1364/CLEO_QELS.2014.FF2C.2 Citations: 2,

[C9] Sajid Muhaimin Choudhury and M. A. Matin. "Effect of FSS ground plane on second iteration of hexaflake fractal patch antenna". In: *2012 7th International Conference on Electrical and Computer Engineering*. 2012, pp. 694–697. 10.1109/ICECE.2012.6471645 Citations: 5,

[C8] S. M. L. Kabir, M. S. Hussain, S. M. Choudhury, and A. H. Chowdhury. "Developing A Low-Cost Multiple Motor Switched Photovoltaic Powered Irrigation System". In: *Proceedings of the 3rd International Conference on Water and Flood Management (ICWFM-2011)*. Vol. 2. 2011, pp. 577–581.

[C7] S. M. Choudhury, M. A. Zaman, M. Gaffar, and M. A. Matin. "A Novel Approach for Changing Bandwidth of FSS Filter Using Gradual Circumferential Variation of Loaded Elements". In: *Proceedings of Progress in Electromagnetic Research Symposium PIERS, Cambridge, USA*. 2010 Citations: 8,

[C6] Sajid Muhaimin Choudhury, Md. Gaffar, Mohammad Asif Zaman, and Md. Abdul Matin. "Design of an X band aperture matched horn antenna by optimization of back-lobe and cross-polarization level". In: *International Conference on Electrical & Computer Engineering (ICECE 2010)*. 2010, pp. 550–553. 10.1109/ICELCE.2010.5700751 Citations: 1,

[C5] Md. Gaffar, Sajid Muhaimin Choudhury, Mohammad Asif Zaman, Md. Imran Momtaz, M. Shah Alam, and Md. Abdul Matin. "Sensitivity analysis of a circularly polarized U-slot microstrip antenna". In: *International Conference on Electrical & Computer Engineering (ICECE 2010)*. 2010, pp. 546–549. 10.1109/ICELCE.2010.5700750.

[C4] Mohammad Asif Zaman, Md. Gaffar, Sajid Muhaimin Choudhury, and M. A. Matin. "Optimization and analysis of a Ka band Pickett Potter horn antenna with low cross polarization". In: *International Conference on Electrical & Computer Engineering (ICECE 2010)*. 2010, pp. 542–545. 10.1109/ICELCE.2010.5700749 Citations: 12,

[C3] M.A. Matin, Mohammad Asif Zaman, Sajid Muhaimin Choudhury, and Md. Gaffar. "Analysis of a conical corrugated horn operating in the K-band with low cross-polarization and high aperture efficiency, and observing its radiation patterns". In: *2009 IEEE Antennas and Propagation Society International Symposium*. 2009, pp. 1–4. 10.1109/APS.2009.5171493 Citations: 4,

[C2] Mohammad Asif Zaman, Sajid Muhaimin Choudhury, Md. Gaffar, and M. A. Matin. "Modeling the illumination function of a cassegrain reflector for a corrugated horn feed and calculation of the far field pattern". In: *2009 Loughborough Antennas & Propagation Conference*. 2009, pp. 101–104. 10.1109/LAPC.2009.5352533 Citations: 6,

[C1] Sajid Muhaimin Choudhury. "Design and implementation of a low cost Power Factor Improvement device". In: *TENCON 2008 - 2008 IEEE Region 10 Conference*. 2008, pp. 1–4. 10.1109/TENCON.2008.4766529 Citations: **21**,

Patents

[P2] Esteban Marinero-Caceres, Arnold Toppo, Sajid Choudhury, Urcan Guler, Zhaxylyk Kudyshev, Joseph Pekny, Swati Pol, Harsha Reddy, and Vladimir Shalaev. "Thermophotovoltaic system and method of making the same". US20210234498A1. July 29, 2021. URL: https://patents.google.com/patent/US20210234498A1/en.

[P1] Amr Shaltout, Sajid Choudhury, Alexander V. Kildishev, Alexandra Boltasseva, and Vladimir M. Shalaev. "System for producing ultra-thin color phase hologram with metasurfaces". US9952557B2. Apr. 24, 2018. URL: https://patents.google.com/patent/US9952557B2/enCitations: **13**,

Preprint / Manuscript Under Preparation

[X1] Md. Mahfuzul Haque and Sajid Muhaimin Choudhury. "Design of Silicon-Carbide Based Single-Quantum-Well White LED". Under review in *Heliyon*. 2024.

Membership / Fellowship of Learned Societies, Professional Institutions and Other Noteworthy Affiliations

Senior Member, Institute of Electrical and Electronic Engineers (IEEE)

- Secretary, IEEE Bangladesh Section (July 2021 - May 2022)
- Chair, IEEE Young Professionals Bangladesh (Mar 2020 - Apr 2022)
- Chair, IEEE Graduates of the Last Decade (Jan 2013 - Dec 2013)
- Vice -Chair, IEEE Graduates of the Last Decade (Jan 2011 - Dec 2012)
- Student Activities Coordinator, IEEE Bangladesh Section (Jan 2011 - Dec 2012)
- Chair, IEEE BUET Student Branch (Jan 2008 - Aug 2009)
- Treasurer, IEEE BUET Student Branch (Jan 2007 - Dec 2008)

Member, IEEE Photonics Society

- Vice Chair, IEEE Photonics Society Bangladesh (April 2022 – to date)
- Founding Chair, IEEE Photonics Society Bangladesh (Mar 2021 – Apr 2022)

Member, The Optica

- Founding President, Optica Bangladesh Section May 2022 – to date
- Founding Moderator, BUET Optical and Photonics Society July 2022 – to date
- Treasurer, OSA Purdue Chapter, USA Jun 2016 – May 2017

Member, National Young Academy of Bangladesh (NYAB), April 2021 – to date
Life Member, American Alumni Association of Bangladesh (AAAB) , April 2024 – to date
Life Member, Association of BUET Alumni, April 2021 – to date

Student Activities at Purdue University, West Lafayette, IN, USA

- President, **Nanotechnology Student Advisory Council (NSAC)** (Jun 2017 – May 2018)
- Vice-President, **Nanotechnology Student Advisory Council (NSAC)** (Jun 2016 – May 2017)
- Treasurer, SPIE Purdue Chapter, USA (Jun 2015 – May 2016)
- President, Bangladesh Students Association (**Purdue BDSA**), USA (Jul 2017 – Jun 2018)
- Treasurer, Bangladesh Students Association (**Purdue BDSA**), USA (Jul 2015 – Jun 2017)

References

Available upon request