

Dr. Sajid Muhaimin Choudhury

Associate Professor, Department of EEE, BUET

📍 Dhaka, Bangladesh ✉ sajid@eee.buet.ac.bd 🌐 sajid.buet.ac.bd in sajidmc

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. He is principal investigator of the Q-PACERS or the Quantum-, Photonic-, Antenna-, Computing-, Embedded-, and Renewable-energy Systems Research Group. 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, founding President, The Optica Bangladesh Section and founding chair, IEEE Photonics Society BD Chapter.

Experience

Associate Professor, Department of Electrical and Electronic Engineering (EEE) Bangladesh University of Engineering and Technology (BUET)	July 2022 – to date
Assistant Professor, Department of Electrical and Electronic Engineering (EEE) Bangladesh University of Engineering and Technology (BUET)	June 2013 – July 2022
Lecturer, Department of Electrical and Electronic Engineering (EEE) Bangladesh University of Engineering and Technology (BUET)	Jan 2010 – June 2013
Lecturer, Institute of Information and Communication Technology (IICT) Bangladesh University of Engineering and Technology (BUET)	Nov 2009 – Jan 2010

Education

Ph.D.	Purdue University , West Lafayette, IN, USA School of Electrical and Computer Engineering <ul style="list-style-type: none"> • Ph.D. Thesis: WAVEFRONT MANIPULATION WITH META-SURFACES BASED ON NEW MATERIALS • Ph.D. Co-supervisor(s): Alexandra Boltasseva and Alexander Kildishev 	Aug 2013 – Aug 2019
M.Sc.	Bangladesh University of Engineering and Technology (BUET) Department of Electrical and Electronic Engineering <ul style="list-style-type: none"> • M.Sc. Engg. Thesis: Design of a Fractal Antenna based on Hexaflake Fractal Structure • M.Sc. Engg. Supervisor: Dr. M. A. Matin 	Aug 2011 – 2013
B.Sc.	Bangladesh University of Engineering and Technology (BUET) Department of Electrical and Electronic Engineering <ul style="list-style-type: none"> • 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 	Dec 2004 – Aug 2010
H.S.C.	Notre Dame College , Dhaka <ul style="list-style-type: none"> • GPA: 5.00/5.00 	2004
S.S.C.	Udayan Uchchya Madhyamic Bidyalaya , Dhaka <ul style="list-style-type: none"> • GPA: 5.00/5.00 	2002

Research Initiative

Research interests can be described with the Quantum-, Photonic-, Antenna-, Computing-, Embedded-, and Renewable-energy Systems (Q-PACERS) framework - spanning a broad spectrum of cutting-edge areas in Electronics and Photonics (EP), including nanophotonics, plasmonics, embedded systems design, Internet-of-Things (IoT), and quantum computation.

- **Nanophotonics and Plasmonics:** actively engaged in developing advanced photonic materials and devices at the nanoscale. Work includes designing plasmonic nanostructures for optical sensing and modulation. For example, a recent publication reports a novel concentric plasmonic resonator for dual-band absorption in the near- and mid-infrared, aimed at biochemical sensing applications. Also maintains a strong interest in plasmonic biosensors and high-speed electro-optic modulators, reflecting a goal to engineer nanophotonic systems that push the limits of light-matter interaction for communications, healthcare, and computing.
- **Advanced Antenna and Metasurface Systems:** With a background in antenna engineering, exploration of innovative electromagnetic structures remain an active research area. Own MSc research produced a microstrip patch antenna with a fractal (hexaflake) geometry for enhanced performance. Building on this foundation, research on metasurfaces – engineered electromagnetic surfaces – for novel applications is actively pursued. Notably, a recent thesis student developed an electrically reconfigurable metasurface for metalensing in the near-infrared band. Such metasurface-based antennas and optical elements are central to his research vision, with applications ranging from improved wireless communication devices to compact imaging and holography systems.
- **Quantum Computing and Quantum Photonics:** Research is expanded into the emerging domain of quantum information technology. Answers to fundamental questions in quantum computation, including developing and optimizing quantum algorithms and exploring practical quantum hardware implementations is sought. In particular, using photonic systems (e.g. photons in nanoscale devices or integrated photonic circuits) to realize qubits and quantum logic is actively studied. This interdisciplinary approach combines expertise in photonics and computing. Commitment to this field is further evidenced by the introduction of a dedicated graduate course on quantum computing and photonic technologies (discussed in the Teaching Plan below), which lays the groundwork for a research program in quantum algorithms and photonic quantum hardware. These efforts strive to contribute to Bangladesh's foray into quantum technology research, in line with global trends.
- **Embedded Systems and Computing for IoT:** Design of efficient computing systems and embedded platforms is pursued through design projects. Research focused on embedded systems design and their applications in the Internet-of-Things, aiming to create smart, connected solutions for real-world problems. By integrating sensors, processors, and communication interfaces, these embedded platforms can be tailored for applications like environmental monitoring, smart grids, and healthcare IoT devices. This research direction naturally complements the teaching in EEE 416 – Microprocessor and Embedded Systems Design Laboratory, where collaboration with undergraduate students in projects that prototype IoT systems. Such projects not only provide hands-on experience but also contribute to the advancement of edge computing and distributed sensor networks research.
- **Renewable-Energy and Sustainable Systems:** Research on sustainable energy technologies including efficient solar cell design and grid optimization is performed. Currently, research includes enhancing solar photovoltaic devices and other renewable energy components through nanotechnology. A recent journal paper demonstrates an efficiency improvement in crystalline-silicon/thin-film solar cells using hybrid metal-dielectric nanostructures, illustrating how nanophotonics can boost solar energy harvesting. Another active research interest is photocatalytic water splitting for hydrogen production as a clean fuel. Going forward, the plan is to integrate these efforts by developing smart renewable-energy systems – for instance, solar energy converters with embedded IoT sensors for performance optimization, or photonic devices that improve the efficiency of energy generation and storage.

Teaching Plan

New Course Development

In parallel with research, a strong commitment to teaching excellence and curriculum development is maintained. The taught course contents are continually updated to reflect the state-of-the-art and emphasizes hands-on learning. Teaching plan as a professor involves not only delivering core EEE courses with rigor but also introducing new courses and pedagogical approaches that prepare students for rapidly evolving technological fields. Key teaching initiatives as demonstration include:

- **Modernizing the EEE 415/416 – Microprocessor and Embedded Systems Curriculum:** Led a significant overhaul of the undergraduate microprocessors and embedded systems courses at BUET. Traditionally, EEE 415 (Microprocessors and Embedded Systems) focused on the legacy Intel 8086 microarchitecture and its assembly language in BUET and most public and private universities in Bangladesh. Such courses in most other countries are taught using modern architecture (MIPS/ARM/RISCV). Recognizing the need for contemporary relevance, a modernization effort of the course was spearheaded that replaced the 8086-centric syllabus with a modern curriculum centered on ARM architecture and microcontroller design. The revised course now covers modern processors and microcontrollers, ARM Cortex A and Cortex-M architecture, along with high-level design using hardware description language (Verilog). Students learn assembly programming and system design on ARM/RISC-V platforms (e.g. stack operations, interrupts, serial interfaces), gaining experience directly applicable to current industry and research needs. This modernization ensures that graduates are proficient in modern embedded systems, aligning the curriculum with global standards and the needs of Bangladesh's growing tech sector.
- **Modernization of Microprocessor and Embedded Systems Laboratory:** To support the revamped syllabus, as the lab-in-charge, submitted a proposal to Head of the Department, that was later forwarded and approved by the University Syndicate in January 2022. Key features are:
 - **Pedagogical layout:**
Three zones—**Class Space, Project Space, Storage Space**—ensure unobstructed instruction, team prototyping benches and organised component inventory. Each workstation (ratio 1 : 2 students) integrates an FPGA board, MCU kit and development PC for seamless lecture-to-lab.
 - **Core hardware:**
STM32 Nucleo-F4466 ARM Cortex-M4 evaluation kits and **Digilent Nexys A7-100T Artix-7** FPGA trainers anchor the digital design workflow. 150 MHz Digital Storage Oscilloscopes, programmable power supplies, logic analysers and a suite of sensors and actuators (Stepper, Servo, LCD, Temperature Sensor) support hands-on learning
 - **Rapid-prototyping tool-chain:**
3-D printer is purchased for rapid prototyping of enclosure. Soldering station is available for students to rapidly prototype PCBs.
 - **Budget and implementation:**
Total investment **BDT 62.42 lakh** was done. Components were chosen to minimize cost and local availability. Budget breakdown: equipment 26%, test & measurement 36%, IT & furniture 24%, civil and electrical works 14%), funding 17 full workstations and specialised project gear.
- **Project-Based Learning and Laboratory Integration:** Alongside the theoretical updates, Dr. Choudhury redesigned the accompanying lab course (EEE 416) to emphasize experiential learning. The lab is now structured in two phases: initially reinforcing fundamentals through guided experiments, and subsequently engaging students in open-ended design projects related to the EEE 415 topics. In these capstone-like projects, student teams might develop simple microprocessor-based systems – for example, an embedded IoT device or a mini computer system – applying the concepts of processor architecture, interfacing, and programming learned in class. By requiring students to design, build, and test a system, the course cultivates problem-solving and hardware debugging skills. This hands-on approach, implemented under Dr. Choudhury's instruction, aligns with Outcome-Based Education principles and has enhanced student learning outcomes. It bridges theory and practice, as students not only study architectural concepts in lectures but also directly implement and experiment with them in the lab. The success of this approach is evident in improved student engagement and the ability of graduates to undertake complex hardware projects with confidence. The model was later

adopted by the department into most compulsory courses, to replace the Capstone Project with “Culmination of Program Outcomes with Sessional Course Projects”.


- **Introduction of New Courses in Emerging Areas:** As part of the vision of teaching the emerging fields, have consistently developed and taught new courses to keep the curriculum at the forefront of technology. Offered postgraduate courses EEE 6408 Nano Systems and EEE 6505 Nanophotonics and Plasmonics were both new courses offered first time in the department of EEE.
- **EEE 6002 Quantum Computing and Quantum Photonics:** Introduced a postgraduate special-topics course on “Quantum Computing and Quantum Photonics.” First offered in 2024, this course provides EEE graduate students with a comprehensive foundation in quantum information science. The syllabus spans from the basics of qubits and quantum logic gates to advanced quantum algorithms (such as the Deutsch-Jozsa, Grover’s, and Shor’s algorithms) and error correction, as well as an overview of cutting-edge quantum hardware platforms. Uniquely, it integrates photonics by covering topics like photonic quantum computers and continuous-variable quantum computing. By offering this course, an important gap in the curriculum is filled— preparing students and faculty for research in quantum technologies – and demonstrated academic leadership in curriculum innovation. Going forward, he plans to expand such offerings, potentially developing undergraduate electives in areas like Quantum Technology, Nanophotonics, or Advanced Embedded Systems, thereby continually enriching the department’s academic portfolio.
- **EEE 6516: Quantum Computing:** Based on the experience of the Special Topics course, a new course on Quantum Computing is designed and approved by Academic Council
Division: EP, 3.0 Credit Hour Introduction to quantum computing; Postulates of quantum mechanics; Qubits and single-qubit gates; Operators and quantum measurement; Quantum information processing, superposition, entanglement, no cloning theorem, and quantum teleportation; Quantum circuits, controlled operation and measurement, universal quantum gates; Quantum algorithms: Deutsch-Jozsa algorithm, Grover’s algorithm, Shor’s algorithm, quantum Fourier transform and phase estimation; Density matrices and Bloch sphere representation of quantum variables; Quantum error correction and fault-tolerant architecture; Physical realization of quantum computers: harmonic oscillator, optical quantum computers, trapped ions, superconducting qubits, and new implementation schemes.

Postgraduate thesis supervised

- Puja Das, M.Sc. Engg. (September 2025) **Efficiency Enhancement of HTL-Free Perovskite/Cadmium-Sulfide Heterojunction Solar Cell Incorporating Light Trapping Structure**
- Ayon Sarker, M.Sc. Engg. (July 2025) **Design of Dual-band Plasmonic Absorber for Biomedical Sensing and Environmental Monitoring**
- Soikot Sarkar, M.Sc. Engg. (July 2025) **Hybrid Metal-Dielectric Nanostructures Integrated Heterojunction Thin Film Solar Cell for Efficiency**
- 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**

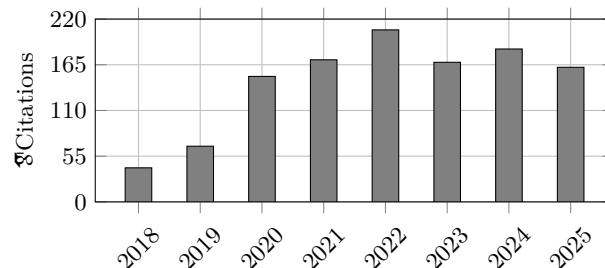
Complete List of Publications

Publications Metrics











(a)  Google Scholar Metrics

Total Citations	1218
h-index	13
i10-index	12

(b)  Google Scholar Citations per Year



Journal Articles












- [J27] Md. Mahfuzul Haque and Sajid Muhaimin Choudhury. “Tailoring electronic and optoelectronic properties of 2D-SiC via defects and doping: a first-principles study toward efficient white light-emitting diodes”. In: *RSC advances* 15 (2025), pp. 29335–29366. 10.1039/D5RA04586J . [SJR Q1\(IF 3.9\)](#).
- [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 . [Citations: 3](#), [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: 3](#), [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>. [Citations: 1](#), [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 μ m 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: 32](#), [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: 6](#), [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 2 μ m 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: 80, 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: 14, 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: 297, 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: 222, 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: 178, 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: 86, 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: 38, 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: 78, SJR Q1(IF 15.82).
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- [J1] Mohammad Asif Zaman, Md Gaffar, Md Mushfiqul Alam, Sayed Ashraf Mamun, Sajid Muhaimin Choudhury, and MA Martin. “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>. Citations: 1,

Conference Proceedings

- [C24] Md Al Shahriar Shakil and Sajid Muhaimin Choudhury. “DFT Analysis of Strain Effect in Bilayer 2D-SiC on Electrical, Optical, Phonon, and Thermodynamic Properties”. In: *2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN)*. 2025. 10.1109/QPAIN66474.2025.11172078 [🔗](#).
- [C23] 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 [🔗](#).
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- [C21] Md Asif Hossain Bhuiyan, Shamima Akter Mitu, and Sajid Muhaimin Choudhury. “VO₂-based All-optical Reflection Modulator for 2 μ m 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 [🔗](#) Citations: 2,
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- [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 [🔗](#).
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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)

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Available upon request