

# Sayed Mahmud

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## Expertise

- Worker as RA in IIUC Research Society
- Conducted research on metamaterials utilizing CST for electromagnetic simulations and MATLAB for data analysis.
- Worked as a Secretary in IIUC Telecom Club
- Worked as Teaching Assistant of VLSI Sessional, AC Sessional & Design of electronic system.
- Work as a QA Engineer Intern in A1QA software Testing Company

## Academic Credential

### Bachelor of Science

(CGPA: 3.47/4.00)

Electronic and Telecommunication Engineering  
International Islamic University Chittagong

(2024)

**Thesis:** Eye-Shaped Labyrinth Metamaterial Absorber For C, X, Ku & K-Band Applications

## Research Publications

### Paper in Journal

1. S. Mahmud, A. R. Chowdhury, S. Hannan, M. T. Islam, A. S. Alshammari, and M. S. Soliman, "Polarization-selective metamaterial absorber using tailored Y-shaped SRR for UWB device and Doppler navigation aids applications," *Heliyon*, vol. 10, no. 11, pp. e40102, 2024. doi: 10.1016/j.heliyon.2024.e40102.
2. Mohammed Faysal, Sayed Mahmud, and Shubho Ray Chowdhury, "Spiral coil shaped multi-resonance metamaterial absorber for wireless communication and satellite applications," *AEU – International Journal of Electronics and Communications*, 2025, Article 155844, doi: 10.1016/j.aeue.2025.155844.

### Paper in Conference

3. S. M. Sijan, S. Hannan, O. Faruk, M. Ibrahim, and M. A. Hossain, "Eye-Shaped Labyrinth Metamaterial Absorber for C, X, Ku & K-Band Applications," in *2023 IEEE International Conference on Telecommunications and Photonics (ICTP)*, Dhaka, Bangladesh, 2023, pp. 1-5. doi: 10.1109/ICTP60248.2023.10491066.
4. M. A. Nasif, S. M. Sijan, A. A. H. Newaz, D. B. Samudra, and S. R. Chowdhury, "Tetrahedral Molecular Shaped Metamaterial Absorber for Ku and K Band Applications," *2024 International Conference on Innovations in Science, Engineering and Technology (ICISSET)*, Chittagong, Bangladesh, 2024, pp. 1-6, doi: 10.1109/ICISSET62123.2024.10939153.

## Research Interest

Metamaterials, Antenna, Integrated Circuit, Photonics, VLSI

## Experience

### Teaching Assistant in Electronic and Telecommunication Engineering

International Islamic University Chittagong

November 2022 – November 2023

Assisted in the instruction of courses related to VLSI system design, AC Sessional, and electronic system design. Supported students in lab sessions, graded assignments, and contributed to curriculum development.

**Secretary of IIUC Telecom Club**

International Islamic University Chittagong

November 2022 – November 2023

Organized events and managed club activities, fostering collaboration among members and promoting interest in telecommunications. Coordinated workshops, seminars, and networking opportunities for students.

**QA Engineer Intern**

A1QA Software Testing Company

March 2024 – Sep 2024

Participated in software quality assurance processes, including test planning, execution, and defect tracking. Worked on enhancing testing methodologies and ensuring product quality through rigorous testing and analysis.

**Skills**

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**Simulation Software:** DSCH2, Microwind, LTSpices, PROTEUS, MATLAB, CST STUDIO, Virtual Machine, POSTMAN (API), Jira, Testrail

**Microsoft Office:** Word, Excel, and PowerPoint.

**Programming Skill:** SQL, NO SQL (Mongodb), HTML, Javascript, CSS, Typescript, React

**Hardware and Software Skills:** Proficient in installing, and troubleshooting software, and operating systems with extensive technical expertise.

**Language:** Bangla & English.

**Researcher ID**

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**Google Scholar:** <https://scholar.google.com/citations?hl=en&user=ERA4SrsAAAAJ>

**Research Gate:** <https://www.researchgate.net/profile/Sayed-Sijan>

**ORCID:** [orcid.org/0000-0002-3260-308X](https://orcid.org/0000-0002-3260-308X)

**Github:** <https://github.com/sayedmahamudsijan>

**Reference(s)**

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**Mohammed Jashim Uddin****Associate Professor**

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