

Purno Mohon Ghosh, Ph.D.
Assistant Professor of Electrical Engineering
University of South Carolina Aiken
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Education

Ph.D. in Electrical Engineering Southern Illinois University Carbondale, IL.	July 2023
Master of Science in Electrical Engineering University of Rajshahi, Bangladesh.	Dec 2009
Bachelor of Science in Electrical Engineering University of Rajshahi, Bangladesh.	Dec 2007

Academic Appointments

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| • Assistant Professor of Electrical Engineering
University of South Carolina Aiken, SC, USA | Aug 2026- Present |
| • Instructor, Department of Engineering
College of Charleston, SC, USA | Aug 2023 – July 2026 |
| • Graduate Research and Teaching Assistant
Southern Illinois University Carbondale, IL, USA | Aug 2017- May 2023 |
| • Assistant Professor
Department of Electrical, Electronic, and Communication Engineering
Pabna University of Science and Technology, Bangladesh | Mar 2013- July 2017 |
| • Chair
Department of Electrical, Electronics, and Communication Engineering
Pabna University of Science and Technology, Bangladesh. | Mar 2013 – Feb 2015 |
| • Lecturer
Department of Electrical, Electronic, and Communication Engineering
Pabna University of Science and Technology, Bangladesh. | Mar 2010 – Feb 2013 |

Research Interests

- Additively Manufactured Antennas and RF/Microwave Devices
- Microwave and Millimeter-Wave (mmWave) Engineering
- Wireless Communications

Current Teaching (Fall 2026)

- Mechatronics
- Electrical Circuits I
- Introduction to Electrical Engineering I
- College Algebra

Previously Taught Courses

- Fundamentals of Electrical and System Engineering.
- Electric Circuits I & II
- Electronics I & II
- Electromechanical Energy Conversion Devices and Electric Power.
- Digital Design.
- Applied Electromagnetics.
- Signals and Systems
- Microwave Engineering
- Communication Systems
- Wireless Communications
- Antennas and Wave Propagation

Academic Service – College of Charleston

- Faculty Advisor for Engineering Majors.
- Chair, Electrical Engineering Curriculum Committee.
- Judge, SECM Expo.
- Reviewer, SECM Summer Undergraduate Research Funding Applications.

Committee Memberships

- Member, Engineering Department Chair Search Committee.
- Recruitment and Outreach Committee
- Transfer Evaluation Committee
- ABET Accreditation Committee
- Colloquium Committee

Professional Development Activities

- **Teaching First Year Students: Understanding the Challenges**, organized by the First Year Experience Program, Spring 2024.
- **Universal Design for Learning (UDL)**, hosted by the Center for Applied Special Technology (CAST), Fall 2024.
- **Pedagogical Strategies for Student Engagement**, organized by the Center for Excellence in Teaching & Learning (CETL), Fall 2024.
- **First Year Experience (FYE) Reading Group**, Summers 2024 and 2025.

ABET Experience

- Participated in a two-day workshop on **Fundamentals of Program Assessment** at ABET Headquarters, Baltimore, MD, November 2024.
- Collaborated with the department's assessment coordinator in **collecting, organizing, and preparing program assessment data for ABET accreditation.**

Mentorship

- Faculty Advisor for Summer Research 2024, 2025
- Faculty Internship Advisor Summer 2025
- Faculty Mentor for Capstone Project (**Best Capstone Project Award**) Fall 2025

Journal Publications

- **P. Ghosh**, F. J. Harackiewicz, Liton Chandra Paul, and Ashish Mahanta, "**Non-Conformal Design and Fabrications of Single Arm Conical Log Spiral Antenna**," Progress In Electromagnetics Research Letters, Vol. 121, pp 33-40, July 2024. doi:10.2528/PIERL24042404
- **P. Ghosh**, Liton Chandra Paul, Tithi Rani, "**Rapid Prototype of Electrically Small Spherical and Cylindrical Antennas**."Elsevier e-Prime - Advances in Electrical Engineering, Electronics and Energy, vol. 8, June 2024.
- Liton Chandra Paul, Syed Asikul Hye, Tithi Rani, Md. Imran Hossain, Muharrem Karaaslan, **Purno Ghosh**, Himel Kumar Saha, "**A compact wrench-shaped patch antenna with a slotted parasitic element and semi-circular ground plane for 5G communication**," Elsevier e-Prime - Advances in Electrical Engineering, Electronics and Energy, vol. 6, Dec 2023.
- **P. Ghosh** and F. J. Harackiewicz, "**Fabrications of electrically small hemispherical antenna**" Microwave and Optical Technology Letters, vol. 66, issue 1, Nov 2023.
- **P. Ghosh** and F. J. Harackiewicz, "**Three-dimensional-printed strip and paint-based semiellipsoidal helical antenna**," Microwave and Optical Technology Letters, vol. doi: 10.1002/mop.33672, pp. 1-5, August 2023.
- **P. Ghosh** and F. Harackiewicz, "**Analysis and Fabrication of Conductive Strip and Paint-based Hemispherical Helical Antennas on 3D Printed Structure**," Progress In Electromagnetics Research C, vol. 135, pp. 1-11, July 2023.
- **P. Ghosh** and F. Harackiewicz, "**3D Printed Low Profile Strip-Based Helical Antenna**," Progress In Electromagnetics Research C, vol. 127, pp. 195-205, Dec 2022.
- **Purno Mohon Ghosh**, Liton Chandra Paul, A F M Zainul Abadin, "**A Review of the Potential Health Hazards of Radio Frequency Radiation from Cellular Base Station**", British Journal of Applied Science & Technology 20(4): 1-8, 2017; Article no. BJASt.31737 ISSN: 2231-0843, NLM ID: 101664541.
- S. M. Yahea Mahbub, **Purno Mohon Ghosh**, Iffat Ara, Md. Kislu Noman, "**The Peak to Average Power Reduction (PAPR) Technique of OFDM Signal by using Clipping and Filtering Method**", Global Journal of Research in Engineering, Vol 14-F Issue 8, 2014.
- A F M Zainul Abadin, Md. Anwar Hossain, Muntasir Ahmed, **Purno Mohon Ghosh**, "**Performance Evaluation of a Space-Time Trellis Coded MIMO-OFDM Wireless Communication System**", International Journal of Scientific Engineering and Technology, pp: 1229-1233, Volume No.2, Issue No.12, Dec. 2013; ISSN: 2277-1581.

- **Purno Mohon Ghosh**, Md. Anwar Hossain, A.F.M. Zainul Abadin, Kallol Krishna Karmakar, “**Comparison Among Different Large Scale Path Loss Models for High Sites in Urban, Suburban and Rural Areas**”, International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307, Vol: 02, Issue: 02, May 2012.

Conference Proceedings

- Liton Chandra Paul, Naymaa Rashid, Tithi Rani, Md. Rifat Kabir, Sayed Shifat Ahmed, Purno Mohon Ghosh, “**Compact and Efficient Antenna with Sharp Multi-Notch Loaded Partial Ground Plane for WiFi, WLAN, and Sub-6 GHz 5G NR Bands.**” IEEE QPAIN 2026, Bangladesh.
- Md. Zakirul Islam, Liton Chandra Paul, Md. Rifat Kabir, Tithi Rani, Purno Mohon Ghosh. “**Miniaturized FR-4 8-Port MIMO Antenna for Public Safety and WLAN with Ultra-Low ECC.**” IEEE QPAIN 2026, Bangladesh.
- Md. Rasel Biswas; Tithi Rani; Liton Chandra Paul; Sayed Shifat Ahmed; Md. Ashraful Haque; Purno Mohon Ghosh, “**IoT and Mobile App-Based Real-Time Remote E-Health Care System for Rural Communities in Bangladesh.**” 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), Bangladesh.
- Purno Ghosh, Frances Harackiewicz, Omer Elsunasi, “**A Hands-on Activity on Human-Powered Lights for In-Class Demonstration**”, ASEE *Illinois-Indiana Section Conference*, Feb 2023, USA.
- L. C. Paul, A. K. Sarkar, M. A. Haque, P. Miah, P. M. Ghosh, and M. R. Islam, “**Investigation of the Dependency of an Inset Feed Rectangular Patch Antenna Parameters with the Variation of Notch Width for WiMax Applications,**” 2018 Second International Conference on Electronics, Communication, and Aerospace Technology (ICECA), 2018, pp. 151-154, DOI: 10.1109/ICECA.2018.8474908

Peer Review Service:

Reviewer for:

- *Progress in Electromagnetics Research*
- *Microwave and Optical Technology Letters*
- *CEAS Space Journal*
- *Journal of Sensing and Imaging*
- American Society for Engineering Education (ASEE) Illinois-Indiana Section Conference

Professional Memberships

- Member, Institute of Electrical and Electronics Engineers (IEEE)

Awards and Honors

- **Doctoral Research Assistantship**, Graduate School, Southern Illinois University Carbondale, 2022