

Curriculum Vitae

Dr. Bappa Sarkar

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Career Objectives

To develop my career so as to consume my talent in the field of Biomedical Engineering/Pattern Recognition/Natural Language Processing/Computer Vision/Intelligent system and to utilize my education, capability, practical & professional experience and offer secured career advancement with the extent of dynamic & competitive environment and finally eager to establish myself as an **Ideal Teacher & Researcher**.

Personal Details

Nationality : Bangladeshi

Date of Birth : 15-10-1985

Mailing Address :

Present Address: Bappa Sarkar
Assistant Professor
Department of Computer Science & Engineering
Islamic University,
Kushtia-7003, Bangladesh.

Permanent Address: C/O: Jogadish Chandra Sarker
Village: B. Patna, Post Office: Patna, Post Code: 7514,
Upazila: Kalia, District: Narail, Bangladesh.

Professional Experience:

Teaching: *From September 2016 to present*

Position: **Assistant Professor**
Department of Computer Science & Engineering
Islamic University, Kushtia, Bangladesh.

Teaching: *From September 2013 to September 2016*

Position: **Lecturer**
Department of Computer Science & Engineering
Islamic University, Kushtia, Bangladesh.

Teaching: *From July 2009 to September 2013*

Position: **Assistant Programmer**
Bangladesh Computer Council
Ministry of ICT, Bangladesh.

Research Interests:

Biomedical Engineering, Signal and Image Processing, Natural Language Processing, Artificial Intelligence, Artificial Neural Networks, Data Mining, Big Data Analysis, IoT, Pattern Recognition, and Computer Vision.

Academic Records:

Name of Examination	Year of passing	Board / University	Group/ Subject
Ph.D.	2026	Kwangwoon University, Seoul, South Korea	Electronic Convergence Engineering
M.Sc. (1 Year) (Thesis group)	2007 (Held in 2009)	Islamic University, Kushtia Bangladesh	Computer Science and Engineering
B.Sc. (Hons') (4 Year)	2006 (Held in 2008)	Islamic University, Kushtia Bangladesh	Computer Science and Engineering
HSC	2002	Jessore	Science
SSC	2000	Jessore	Science

Skill:

- **Programming** : Python, OpenCV, NLTK, MATLAB, C, C++, C#, HTML, PHP, JavaScript, VBScript ASP.NET, JavaScript.
- **Networking** : Knowledge in Router, Switch, TCP/IP, LAN, WAN.
- **Application Programs:** MS Word, MS Excel, MS Access, PowerPoint, Photoshop Rhino 3D design, etc.
- **Database Systems** : MS SQL & MS Access, Oracle

Special Achievements:

- Merit Based Scholarship on M.Sc.(Masters) result, University Grant Commission, Bangladesh.
- Merit Based Scholarship on B.Sc.(Hon's) result, University Grant Commission, Bangladesh.

English Proficiency:

- Bangla (Native Language)
- English (Fluent in Speaking, reading & writing)
- Used English as the medium of instruction & examination in undergraduate, graduate level.

Major Taught Courses:

- Natural Language Processing
- Digital Signal and Image Processing
- Microprocessor & Assembly Language Programming
- Data Communication and Computer Network
- Communication Engineering
- Database Management System
- Computer Architecture and Organization
- Digital Electronics
- Data Structure and Computer Algorithms
- Robotics
- Computer Programming
- Operating System
- Computer Graphics
- Wireless Communication

Publications:

S/N	Article name
01	Hossen, S., Rahman, M. M., Rahman, M. T., Sarkar, B. , Devnath, R., & Shim, J. S. (2026). Laser-induced graphene encapsulated–SiOx hybrid anode with enhanced initial coulombic efficiency via prelithiation for long-life lithium-ion batteries. <i>Chemical Engineering Journal</i> , 537, 176275. https://doi.org/10.1016/j.cej.2026.176275
02	Bappa Sarkar , Md Tareq Rahman, M. Mahabubur Rahman, Sarwar Hossen, Li Zhenguo, Nabil H. Bhuiyan, and Joon S. Shim. 2025. "Amplification of electrochemical signal by moving interdigitated electrode array for highly sensitive detection of Alzheimer's disease markers in blood." <i>Biosensors and Bioelectronics</i> , October, 118063. https://doi.org/10.1016/j.bios.2025.118063 .
03	M. Mahabubur Rahman, Bappa Sarkar , Md Tareq Rahman, Gyeong J. Jin, M. Jalal Uddin, Nabil H. Bhuiyan, and Joon S. Shim. 2024. "Development of a highly sensitive CNT-metal graphene hybrid nano-IDA electrochemical biosensor for the diagnosis of Alzheimer's disease." <i>Biomaterials Science</i> , January. https://doi.org/10.1039/d4bm00654b .
04	Sarwar Hossen, M. Mahabubur Rahman, Md Tareq Rahman, Bappa Sarkar , Nabil Hossain Bhuiyan, Yongmin Jung, and Joon S. Shim. 2025. "Laser-induced graphite-graphene matrix with pre-lithiation for high-performance lithium-ion battery." <i>Journal of Power Sources</i> 654 (July): 237824. https://doi.org/10.1016/j.jpowsour.2025.237824 .
05	Gyeong J. Jin, M. Mahabubur Rahman, Moo K. Yoo, M. Jalal Uddin, Bappa Sarkar , and Joon S. Shim. 2025. "Wrist-Wearable Blood Flow Meter by biomimetically structured Conductive PDMS composite." <i>Sensors and Actuators a Physical</i> , June, 116813. https://doi.org/10.1016/j.sna.2025.116813 .
06	M. Mahabubur Rahman, Sarwar Hossen, Bappa Sarkar , Md Tareq Rahman, Soon Chang Lee, Yongmin Jung, and Joon S. Shim. 2025. "High density 3D-structured graphene for long-life and high energy density lithium-ion battery." <i>Journal of Power Sources</i> 650 (June): 237493. https://doi.org/10.1016/j.jpowsour.2025.237493 .
07	M. Mahabubur Rahman, Md Tareq Rahman, Sarwar Hossen, Bappa Sarkar , Soon Chang Lee, Yongmin Jung, and Joon S. Shim. 2024. "Polyethersulfone-based thick polymer-supported graphene sheet for high energy density lithium-ion battery." <i>Journal of Power Sources</i> 626 (November): 235774. https://doi.org/10.1016/j.jpowsour.2024.235774 .
08	Md Tareq Rahman, Sarwar Hossen, Kyoung-Jin Jeong, Nabil H. Bhuiyan, M. Mahabubur Rahman, Bappa Sarkar , Yongmin Jung, and Joon S. Shim. 2024. "Polymer-Supported graphene sheet as a vertically conductive anode of Lithium-Ion battery." <i>Small Methods</i> 8 (9). https://doi.org/10.1002/smt.202400189 .
09	Diponkor Bala, Bappa Sarkar , Md Ibrahim Abdullah, and Mohammad Alamgir Hossain. "American sign language alphabets recognition using convolutional neural network." <i>International Journal of Knowledge Based Computer Systems</i> 9, no. 1 (2021).
10	Bappa Sarkar , Abdullah Al Zubaer, Joyassree Sen, and Md Nazrul Islam. "Brain tumor segmentation from MRI images using morphological operation." <i>Comput Rev J</i> 7 (2020): 2581-6640.
11	Joyassree Sen, Bappa Sarkar , Mst Ashrafunnahar Hena, and Md Hafizur Rahman. "Face recognition using deep convolutional network and one-shot learning." <i>SSRG International Journal of Computer Science and Engineering</i> 7, no. 4 (2020): 23-9.
12	Nur Hossain Khan, Md Farukuzzaman Khan, Md Mojahidul Islam, Md Habibur Rahman, and Bappa Sarker . "Verification of Bangla sentence structure using n-gram." <i>Global journal of computer science and technology</i> 14, no. 1 (2014).
13	Nur Hossain Khan, Gonesh Chandra Saha, Bappa Sarker , and Md Habibur Rahman. "Checking the correctness of bangla words using n-gram." <i>International Journal of Computer Application</i> 89, no. 11 (2014).

Referees:

DR. MD. ROBIUL HOQUE

Professor

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DR. AHSAN-UL-AMBIA

Professor

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I hereby **declare** that, all the above information in this **resume** is true and correct to the best of my knowledge and belief.

Applicant's Signature



BAPPA SARKAR