

# MD. ARIFUL ISLAM

## B.Sc & M.Sc in Electrical and Electronic Engineering

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376/A, Surja Sen Hall House Tutor Bhavan, University of Dhaka



-LIFE PHILOSOPHY

## EXPERIENCES

### Lecturer

Department of Robotics and Mechatronics Engineering  
University of Dhaka

2 October, 2019 - Ongoing

Dhaka-1000, Bangladesh

### Lecturer

Department of Information and Communication Technology  
Comilla University

Feb, 2019 - Sept, 2019

Cumilla-3506, Bangladesh

## SKILLS

Python MATLAB Simulink C OOP with C++ Proteus  
Solid Works AutoCAD Microsoft Office HTML and CSS  
Photoshop CISCO Packet Tracer Latex

## AWARDS AND SCHOLARSHIPS

- National Science and Technology Fellowship (Funded for Master's Thesis) for 1 year (July 2017-June 2018) by Govt. Peoples Republic of Bangladesh.
- Merit Scholarship for 4 years (2012-2015) by University of Dhaka
- General Grade Scholarship for Academic Excellency, School Certificate Examination 2008
- Bangladesh Army Welfare Scholarship for 5 years (2003-2007)
- Talent Pool Junior Scholarship 2005

## PUBLICATIONS

- Md. Ariful Islam, Md. Ziaul Hasan Majumder and Md. Alomgeer Hussein : Chronic kidney disease prediction based on machine learning algorithms, Journal of Pathology Informatics (impact factor:3.23) Elsevier , 2023 .
- Md. Ariful Islam and Mosa. Tania Alim Shampa : Convolutional Neural Network based Marine Cetaceans Detection around the Swatch of No Ground in the Bay of Bengal, International Journal of Computing and Digital Systems (impact factor:1.01) , vol.12 , no.1 , pp.877-893 , 2022 .
- Md Mehedi Hasan, Md Ariful Islam, Sejuti Rahman, Michael R Frater and John F Arnold : No-Reference Quality Assessment of Transmitted Stereoscopic Videos Based on Human Visual System, Applied Sciences (impact factor:2.838) , vol.12 , no.19 MDPI , pp.10090 , 2022 .
- Kar, Pankaj Chandra, Md Ariful Islam, and Amit Paul. "Experimental Circuit Model for Increasing the Signal Strength level of a Mobile Phone into a Lift." International Journal 10, no. 2 (2021).

"If you don't have any shadows, you're not standing in the light."

## EDUCATION

### M.Sc in Electrical and Electronic Engineering

Session : 2015-2016

November 2016 - September 2018

Faculty of Engineering and Technology

University of Dhaka

CGPA : 3.98 out of 4.00

### B.Sc in Electrical and Electronic Engineering

Session : 2011-2012

Jan 2012 - June 2016

Faculty of Engineering and Technology

University of Dhaka

CGPA : 3.77 out of 4.00

### Higher Secondary Certificate (HSC)

Session : 2008 - 2009

Group : Science, Board : Cumilla

Ispahani Public School and College, Cumilla

GPA : 5.00 out of 5.00

### Secondary School certificate (SSC)

Session : 2006 - 2007

Group: Science, Board : Cumilla

Ispahani Public School and College, Cumilla

GPA : 5.00 out of 5.00

## RESEARCH INTERESTS

Machine Learning

Deep Learning

Biomedical Engineering

Robotics in Blue Economy

Hybrid Electric Vehicle

Automation

## LANGUAGES

Bangla  
English



5. Kar, Pankaj Chandra, Md Ariful Islam, Joydip Chakraborti, and Subrata Sutradhar. "Mathematical Performance Analysis of the Absorbing Sun Light for Rotating and Non-rotating solar cell panel." Journal of Theoretical and Applied Information Technology 100, no. 10 (2021).

## RESEARCH ACTIVITIES

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1. Modeling of Hybrid Electric Vehicle for Low Emission funded by Centennial Research Grant, Special (2021-2022) of University of Dhaka
2. Artificial Intelligence based Smart Agriculture System funded by Ministry of Science and Technology (2020-2021) of the government of Bangladesh
3. Diagnosis of Intracranial Hemorrhage from CT Scan of Head based Using Deep Learning and Bayesian Optimization funded by Centennial Research Grant (2021-2022), University of Dhaka.

## MASTER'S THESIS

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Modeling and Simulation of the effect of dropped calls on cell traffic to improve the quality of service in 3G based cellular network. **Supervisor:** Dr. Subrata Kumar Aditya, Professor, Dept. of EEE, University of Dhaka, Bangladesh.

## UNDERGRADUATE PROJECT

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**Title:** Estimation of the base station coverage area in GSM mobile communication system. **Supervisor:** Dr. Subrata Kumar Aditya, Professor, Dept. of EEE, University of Dhaka, Bangladesh.

## RELEVANT COURSEWORK

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### Graduate:

Power Plant Engineering, Fuzzy Neural Control System, Information & Network Security, Solid State Physics, Biomedical Signal Telemedicine, Digital Image Processing, High Speed Computer Network **Undergraduate:**

**Major Courses:** Computer Fundamentals and Programming in C, Analog Electronics, Nuclear Physics, Electrical Machines, Digital Electronics, Quantum Mechanics and Physical Electronics, Electrical Circuit Analysis, Electromagnetic Theory and Antenna, Radio and Television Engineering, Telecommunication Networks, Material Science, Advanced Electronic Circuits, Electronic Devices, Industrial and Power Electronics, Microprocessors and Assembly Language, Computer Organization and Architecture, Renewable Energy Technology, Optical Fibre Communication, Microwave and Satellite Communication, Data Communication and Computer Network, Digital Signal Processing, Industrial and Biomedical Instrumentation, Semiconductor Technology and VLSI Technology, Control Engineering, Communication Theory, Computer Peripherals and Interfacing, Mobile Cellular Communication.

**Basic Courses:** Basic Statistics, Calculus, Linear Algebra and ODE, Mathematical Methods.

**Self Study:** Introduction to Machine Learning, MATLAB Deep Learning, Deep Learning for time series forecasting, Image Processing and Acquisition using Python, EEG based Brain Computer Interface, Power Systems.

## SUBJECT TAUGHT

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Fundamentals of Electrical and Electronic Engineering, Digital Signal Processing, Instrumentation and Measurements, Engineering Mechanics, Mechanics of Solids and Fluids, Power Electronics and Drives, Electrical Machines, Fundamentals of Mechanical Engineering.

## SOCIAL SKILLS AND COMPETENCES

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1. Assistant House Tutor, Surja Sen Hall, University of Dhaka.
2. Dhaka University Press Reporter at bdmorning.com
3. General Secretary, University Student's Association of Comilla
4. Former Football Player, EEE Football Team, University of Dhaka
5. Member of BADHAN ( Voluntary Blood Donating Club)
6. Former Moderator, Robotics and Mechatronics Club, University of Dhaka.
7. Moderator, Shahidullah Hall EEE Student Association, University of Dhaka.

## SELF PUBLISHED BOOKS

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1. One-day Python Therapy on Google Colab by Md. Ariful Islam, ISBN-13: 979-8439878178, Publisher: Amazon Kindle
2. Object Oriented Programming with C++ Lab Manual by Md. Ariful Islam, ISBN-13: 979-8846213685, Publisher: Amazon Kindle
3. Digital Signal Processing with MATLAB Manual by Md. Ariful Islam, ISBN-13: 979-8846259355, Publisher: Amazon Kindle
4. One Day HTML CSS Course by Md. Ariful Islam, ISBN-13: 979-8846284999, Publisher: Amazon Kindle
5. MySQL: Database Management System Lab Manual by Md. Ariful Islam, ISBN-13: 979-8846287921, Publisher: Amazon Kindle
6. One Day MATLAB Programming Course by Md. Ariful Islam, ISBN-13: 979-8846295261, Publisher: Amazon Kindle
7. CISCO Packet Tracer Lab Manual by Md. Ariful Islam, ISBN-13: 979-8846255234, Publisher: Amazon Kindle
8. Machine Learning based Projects on Google Colab: 16 hands-on projects implementation by Md. Ariful Islam, ISBN-13: 979-8846283381, Publisher: Amazon Kindle
9. Analog Communication Hand Note: Telecommunication Engineering Topics by Md. Ariful Islam, ISBN-13: 979-8846269743, Publisher: Amazon Kindle