

Md Shaikh Abrar Kabir

📧 Lecturer · Ahsanullah University of Science & Technology

🌐 <https://shaikh-abrar-kabir.github.io/web/> | ✉ shaikhak707@gmail.com | in <https://www.linkedin.com/in/msak/>

Research Interests

My research interest focuses around the domain of Wireless communication technologies such as 5G, LTE, MIMO–SFBC–OFDM etc. I would love to work on Wireless Communication and discover various features of Network Management System, Network Access Control. I would also love to apply Machine Learning and Deep Learning techniques to solve problems on IoT, Social Sensing etc.

Educational Background

B.Sc. in Electrical & Electronic Engineering (EEE)

🏛 AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (AUST)

📊 CGPA : 3.945 out of 4.000

📋 Class Position : 1st out of 142 students

🎓 Batch Position : 1st out of 743 students from all departments

Dhaka 1208, Bangladesh

APRIL 2014-MARCH 2018

Publications & Research Experience (<https://shaikh-abrar-kabir.github.io/web/#P>)

- [1] MJ Rahimi, **MSA Kabir**, A Niaz, MJ Islam, OL Baroi, “BER Performance Optimization of the SFBC-OFDM System for Economical Receiver Design with Imperfect Channel Estimation” (published in MECS Press)
🔗 Link: <http://www.mecs-press.org/ijwmt/ijwmt-v9-n6/v9n6-3.html>
- [2] OL Baroi, **MSA Kabir**, A Niaz, MJ Islam, MJ Rahimi, “Effects of Filter Numbers and Sampling Frequencies on the performance of MFCC and PLP based Bangla Isolated Word Recognition System” (published in MECS Press)
🔗 Link: <http://www.mecs-press.org/ijigsp/ijigsp-v11-n11/v11n11-5.html>
- [3] OL Baroi, **MSA Kabir**, A Niaz, MJ Islam, MJ Rahimi, “Effects of Different coefficients on MFCC and PLP for Bangla Speech Corpus using Tied-state Triphone Model” (published in IEEE Xplore Digital Library)
🔗 Link: <https://ieeexplore.ieee.org/document/8679395>
- [4] **MSA Kabir**, A Niaz, MJ Islam, OL Baroi, MJ Rahimi, “To Observe the Effect of Noise and Interference on the Performance of MIMO-OFDM System” (on review in Turkish Journal of Electrical Engineering & Computer Sciences)
🔗 Link: <https://drive.google.com/open?id=16cr1rEs42VWhLuDmPjN1zFxxLTwx93m>
- [5] OL Baroi, A Niaz, MJ Islam, **MSA Kabir**, MJ Rahimi, “Effects of Different Environmental noises and Sampling Frequencies on the performance of MFCC and PLP based Bangla Isolated Word Recognition System” (accepted in ICASERT 2019)
🔗 Link: <https://drive.google.com/open?id=1vB9eutdv3xwSZlmSKjqHHvi9rEneMu-f>
- [6] **MSA Kabir**, A Niaz, MJ Islam, SH Mahmud, R Zaman, MJ Rahimi, “Comparing the BER Performance of SFBC-OFDM System with STBC-OFDM System in FADING MIMO Channel” (Undergraduate Thesis)
🔗 Link: <https://shaikh-abrar-kabir.github.io/thesis/>

Professional Experience

AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (AUST)
Lecturer, Department of EEE

Dhaka, Bangladesh
January 2019-Present

Selected Projects (Full List: <https://shaikh-abrar-kabir.github.io/web/#projectt>)

◆ SOFTWARE

- **MATLAB GUI Based Applications**

Sentence Detector for Monophone/Triphone Model, Age Counter with Bangla & English Calendar, BER Analyzer w.r.t. SNR & SINR, Audio Recorder, Audio Mixer with Frequency Converter

- **Web Development using JS, HTML, CSS**

- **Age Counter with Calendar using JS (Run: <https://shaikh-abrar-kabir.github.io/jscalendarrun/>), C++, C#, GO, JAVA, PHP, PYTHON, R**

- **CGPA Calculator using Android Studio, Jframe, Python GUI**

- **MATLAB**

- ◇ **GAMES:** Chess, Snakes and Ladders, 4 in a Row

- ◇ **MULTIMEDIA:** 8D Audio Converter, Video/Gif/Jpg/Png to Video/Pdf/Gif Converter

- ◇ **OTHERS:** Grade Counter for AUST

- **PYTHON:** Digital Signal Processing, Audio Cutter

- **CADENCE:** 4 bit - Full Adder, Ring Counter, Johnson Counter, Write and Read Memory

- **AUTOCAD**

Design of Electrical & Electronic Circuits, Illustration of a 500 sq ft Flat and Electrical Low Load Connection Design, Designing and Capturing Video of 3D Room, Design of Side Views of Different Vehicles

- **Automatic Slot Switching using PROTEUS**

◆ **HARDWARE:** Surge Protector, Digital Clock using ARDUINO

Awards & Achievements (Full List: <https://shaikh-abrar-kabir.github.io/web/#extraa>)

- ☑ Champion in Inter University Programming Contest on Matlab; AUST IEEE Student Branch, 2016

- ☑ Runner up in Matlab Storming; GENIUS, 2017

- ☑ Received Junior Scholarship of Government of Bangladesh in Talent pool; 2009

- ☑ 2nd runner up at 1st Gregorian Mathematics Olympiad; 2005

Software Skills (Full List: <https://shaikh-abrar-kabir.github.io/web/#sklll>)

Arduino, Autocad, Pycharm, Cadence, Flutter, Xampp, Pspice, Proteus, Quartus, Visual Studio, Netbeans, Plc

Programming Languages

Asm, C, C++, C#, Dart, Go, Java, JS, MatLab, PHP, Python, R, SQL, Verilog, Latex, HTML, XML, CSS