



A. E. M Ridwan

73/4 Shantinagar, Dhaka, Bangladesh

01521429557

ridwanshab14466@gmail.com, a.e.m.ridwan@g.bracu.ac.bd

[ResearchGate](#) | [GitHub](#) | [LinkedIn](#) | [ridwanshab.github.io](#)

I am a research enthusiast with a Bachelor of Science in Computer Science and Engineering from BRAC University. I have a minor in mathematics and have worked as a lecturer at Feni University. I am passionate about using my skills to solve real-world problems.

Educational Background

BRAC University

Bachelor of Science in Computer Science and Engineering

Minor in Mathematics

CGPA 3.77 out of 4.0

National Ideal College

HSC 2016

GPA 5.0 out of 5.0, Group Science

Motijheel Model High School

SSC 2014

GPA 5.0 out of 5.0, Group Science

Work Experience

Lecturer

FENI UNIVERSITY

May 2022-December 2022

Structured Programming Language,
Data Structure, Algorithms,
Computer Graphics

Student Tutor (ST)

BRAC University

Spring 2020-Fall 2021

Numerical Methods, Programming
Language I(Java), Data Structure
Department of CSE

Volunteer Works

- Lead Instructor BUCC Academy organized by BRAC University Computer Club (Fall 2019-Spring 2021)
- Former Assistant Director BRAC University Computer Club(Summer 2019-Summer 2020)
- Former Senior Executive Robotics club of BRAC

Skills

Java, Python, Machine Learning, Qiskit, MySQL, Django, Arduino, Raspberry Pi, Git, Latex, Unity, EMU8086, Microsoft Office, Webots, Proteus, Labview

Research & Project

Publication

"Design and Implementation of a Smart Bike Accident Detection System" 2020 IEEE Region10 Symposium (TENSYP), Dhaka, Bangladesh, 2020, pp. 386-389, DOI: 10.1109/TEN-SYMP50017.2020.9230656.

Thesis

Quantum Error Correction using Quantum Convolutional Neural Network, DOI: 10.13140/RG.2.2.22596.76162

Preparing for **Submission**

- An Neural Network Architecture For Railway Fault Detection with XAI
- Annexation of Parameterized Quantum gate with Classical Neural Network(**Hybrid QCNN**) for multiclass classification

Projects

Autonomous Train Track Surveillance Robot : finds faults on the track and sends the location of faults to the control room server.

Bike accident detector and remedy : is a system that detects bike accidents and sends a message containing location of the biker to the hospitals, policestations and registered family members.

Marketmanagement system: is a system for collecting shop rent maintaining shop developed using django with MVT .

BRACU Charioteer : is a helping hand for the specially abled people. It's a easy control chair with track chain which helps it to climb the stairs also provides medical assistance along with SOS.

ChitChat: Random chatting platfrom built with php mysql

Other projects : PD-LFR, Object-Avoiding-Robot, Smart Trash Can, Home Automation.

Awards and Grants

- Semi Finalist at Robotics Reality show - Esho Robot Banai Bangladesh's first ever Robotics Reality show where my team competed against universities of the country (April-2019)
- Secured 4th position (Fall-18) and 5th position (Spring-19) at Intra University Programming Contest in BRAC University.
- Merit Scholarship Based on BracU Academic Results Summer 21.
- Member Feni University OBE Curriculum team.

Reference

Sowmitra Das (Lecturer)

Department of CSE, BRAC University

Contact : 01747221216 E-mail: sowmitra.das@bracu.ac.bd

Dr. Md. Motaharul Islam(Professor)

Department of CSE, United International University

Contact : 01712644837 E-mail: motaharul@cse.uui.ac.bd