

SHAKIK MAHMUD

Technical Director | Researcher | Computer Engineer

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Dhaka, Bangladesh

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AD Scientific Index ID: 5026938

Scopus ID: 57225007783

Ministry of Science and Technology, Researcher ID:R2300001536

WORK EXPERIENCE

Technical Director

Japan-Bangladesh Robotics and Advanced Technology Research Center (JBRATRC)

June 2022 — Present

Dhaka, Bangladesh

JBRATRC is the first in Bangladesh to work on robotics, machine learning, embedded systems, IoT, drone technology, etc. at the same time.

Responsibilities

- Guide the team to meet the expected goal.
- Evaluate weekly progress reports.
- Technical problem-solving.
- Analysis of the project correctly and make a roadmap.
- Develop an effective team.
- Working as a bridge between the team and higher authority.

Achievements/Tasks

- Successfully completed AI-Based Water Quality Monitoring Device, UV Solar Insect Trap, Snake Identification with Image Processing, Fish Disease Detection, etc.
- Salmon Fish Monitoring Device With AI Engine (For Chile's Salmon Industry)

Co-Principal Investigator

Sub Project: Development of IoT-Based Smart Mariculture Technique for the Sustainable Utilization of Blue Economy

Project: Sustainable Coastal and Marine Fisheries Project, Department of Fisheries, Bangladesh

March 2024 — Present

Dhaka, Bangladesh

This project aims to design and develop an IoT-based automated fish cage system that is capable of monitoring the health and behavior of fish in the sea. Also assess the potential of the IoT-based automated fish cage system to enhance marine production, improve the sustainability of fish populations and marine ecosystems, and reduce pressure on overfished wild fish populations.

Responsibilities

- System Design and Development
- Data Analytics and Optimization
- Technical Leadership and Innovation
- Stakeholder Collaboration
- Sustainability Analysis

Contact Person

Md. Masud Rana

Principal Investigator, Asso. Professor, Sher-e-Bangla Agricultural University, Dhaka

Cell: 01745626153

Consultant**Project: SAU-Smart Solar Sun Dryer**

Organization: Sher-e-Bangla Agricultural University, Dhaka

March 2022 — Present

Dhaka, Bangladesh

Contact Person

Md. Masud Rana

Principal Investigator, Asso. Professor, Sher-e-Bangla Agricultural University, Dhaka

Technical Facilitator (Outsource)

Farm Machinery and Postharvest Process Engineering Department, Bangladesh Agriculture Research Institute (BARI).

March 2022 — Present

Gazipur, Bangladesh

Assigned Project Name

Design and Development of a Sensor-Based Supplementary Seed Metering Device for Precision Seeder to Overcome Missing of Bold-Grain Seeds

Responsibilities

- Coordinate the research team.
- Technical problem analysis.
- Monitor continuous improvement.

Contact:

Dr. Md. Rejaul karim

Chief Investigator, Senior Scientific Officer, BARI, Gazipur

Instructor (Outsource), Scientist Training Program

Farm Machinery and Postharvest Process Engineering Department, Bangladesh Agriculture Research Institute (BARI).

April 2021 — Present

Gazipur, Bangladesh

Course Name

Python Programming and Image Processing with Machine Learning

Responsibilities

Facilitating live class sessions, preparing class materials, and providing feedback and guidance to each scientist.

Contact:

Dr. Md. Rejaul karim

Chief Investigator, Senior Scientific Officer, BARI, Gazipur

Deputy Technical Director (Part-Time)

Japan-Bangladesh Robotics and Advanced Technology Research Center (JBRATRC).

September 2018 — May 2022

Dhaka, Bangladesh

Technical Member (Part-Time)

Japan-Bangladesh Robotics and Advanced Technology Research Center (JBRATRC).

June 2018 — September 2018

Dhaka, Bangladesh

Executive Member, Research

Robotics Club, United International University | Member ID: 011172174

January 2019 — December 2019

Dhaka, Bangladesh

RESEARCH WORK

Title: Marine Water Aquaculture and an IoT-based Smart Fish Dryer of the Future: a Sustainable Environmental Approach

Published in: *Desalination and Water Treatment (SCI & Scopus Index)*

Title: A Next-Generation Device for Crop Yield Prediction Using IoT and Machine Learning

Published in: *Springer (Scopus Index)*

DOI: doi.org/10.1007/978-981-99-4725-6_78

Title: A Systematic Review on Crop Yield Prediction Using Machine Learning

Published in: *Springer (Scopus Index)*

DOI: doi.org/10.1007/978-981-99-4725-6_77

Title: COVID-19 Future Forecasting Tool: Infected Patients Recovery & Hospitalization Trends using Deep Learning Models.

Published in: *IEEE xplore (Scopus Index)*

DOI: 10.1109/ICST53883.2021.9642691

Title: The Next Generation Multifunctional Window System

Published in: *Springer (Scopus Index)*

DOI: 10.1007/978-981-16-2094-2_25

Title: Root Rot Lentil and Healthy Lentil Detection Using Image Processing

Published in: *Annals of Computer Science and Information Systems (DBLP Index)*

DOI: : 10.1109/3ICT53449.2021.9581590

Title: Future Micro Hydro Power: Generation of Hydroelectricity and IoT based Monitoring System

Published in: *IEEE xplore (Scopus Index)*

DOI: : 10.1109/3ICT53449.2021.9581590

Title: Invasive Suckermouth catfishes (Siluriformes: Loricariidae) in Bangladesh wetlands: A review on the present status and challenges

Published in: *Bangladesh Journal of Zoology (SCI Index)*

DOI: doi.org/10.3329/bjz.v51i3.72105

Title: The Economic Impact of Social Media Fraud in Bangladesh & its Remedies

Published in: *International Journal of Machine Learning and Networked Collaborative Engineering (IJMLNCE) ISSN 2581-3242*

DOI: 10.30991/IJMLNCE.2020v04i01.004

BOOK CHAPTER

Title: Computer Vision Based Street Width Measurement for Urban Aesthetics Identification.
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Book Name: Vehicular Ad Hoc Network: Futuristic Technologies for Interactive Modelling, Dimensioning and Optimization

Published in: CRC Press (Scopus Index)

DOI: : 10.1201/9781003156789

SKILLS

- Knowledge of Machine Learning, Deep Learning, ANN, Image Processing, Computer Vision & NLP
 - Programming Languages (Python, Java, C++, and C)
 - Assembly language, UNIX
 - Creative writing and Software Documentation
 - SQL, PHP, and JavaScript
 - Embedded System and Microcontroller Programming
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STARTUP GRANT

Innovation Design Entrepreneurship Academy (iDEA), ICT Division, Bangladesh

Grant Amount: 10 lac BDT

Project Title: Quick Checkup (Diagnosis Device on Healthcare) (06/2021 - Present) It's a multi-diagnosis device in healthcare.

Award

3rd Runner-Up

Event Name: Robo Carnival | Soccerbot

Event Name Organized by: BUET Robotics Society, 2019

EDUCATION

B.Sc in Computer Science & Engineering

Institute: United International University

Duration: Summer 2017- Spring 2022

Capstone: Pondit — A NLP and DL Based Bangla Chatbot

Medium of Instruction: English

Higher Secondary Certificate

Institute: Cantonment Public School and College, Saidpur, Nilphamari

Duration: April 2013-July 2016

Group: Science (Maths, Physics & Chemistry)

Secondary School Certificate

Institute: Jaldhaka Pilot High School, Nilphamari

Duration: January 2011-March 2013

Group: Science

LANGUAGES

Fluence both in Bangla & English

PERSONAL DETAILS

Name: Shakik Mahmud

Date of Birth: 1st July 1997

Father's Name: Jahed Ali

Permanent Address: College Para, Jaldhaka

Post Office: Jaldhaka-5330

Division: Rangpur, Bangladesh

Sex: Male

Religion: Islam

Nationality: Bangladeshi

REFERENCES

Professor Mohammad Nurul Huda, PhD

Professor, Department of Computer Science and Engineering(CSE)

Director, Master of Science in CSE (MSCSE) Program

United International University(UIU)

United City, Plot #02, Madani Avenue, Badda, Dhaka-1212, Bangladesh

Cell: 01759039451, 01759039465, 01914001470

Personal Mobile Number: 88-01673476433, 88-01301320556

Email: mnh@cse.uiu.ac.bd

Engr. Mohammad Farhan Ferdous

Fukui, Japan

Founder and Chairman at Japan Bangladesh Robotics and Advanced Technology Research Center (JBRATRC).

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