



Abdullah Al Masum

Date of birth: 30 Nov 1997 | **Nationality:** Bangladeshi | **Gender:** Male | **Phone number:**

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Address: Purba Peskar Para, Ward No: 04, Cox's Bazar Pourashava, , 4700, Cox's Bazar, Bangladesh (Home)

Address: Habiganj Agricultural University, Vadoi, Sadar, Habiganj, 3300, Habiganj, Bangladesh (Work)

ABOUT ME

I am **Abdullah al Masum**, an Agricultural Engineer from Bangladesh Agricultural University, with a strong foundation in agricultural mechanization, agricultural structure design, precision agriculture, and sustainable irrigation technologies. I hold a Master's degree in Farm Power and Machinery, which has equipped me with advanced knowledge and skills to address the evolving challenges in modern agriculture. Currently, I serve as a Lecturer in the Department of Agricultural Mechanization at Habiganj Agricultural University.

My expertise includes the development of machine vision systems for automated grading, the application of hyperspectral techniques for soil nutrient analysis, and the design and implementation of IoT-based smart irrigation systems. Additionally, I have hands-on experience with hydrothermal liquefaction techniques.

I am dedicated to contributing to the continuous advancement of agriculture, ensuring that practices evolve to meet the industry's growing demands and challenges.

WORK EXPERIENCE

20 MAR 2024 – CURRENT Habiganj, Bangladesh

LECTURER DEPARTMENT OF AGRICULTURAL MECHANIZATION, HABIGANJ AGRICULTURAL UNIVERSITY

- Mentoring students
- Course delivery and Curriculum development
- Assessment of exams and assignments
- Conducting research and focusing on publications
- Continuous learning through seminars, Workshops and professional courses

9 SEP 2024 – CURRENT Habiganj , Bangladesh

CHAIRMAN (ACTING) DEPARTMENT OF AGRICULTURAL MECHANIZATION,HABIGANJ AGRICULTURAL UNIVERSITY

- Performing departmental administrative responsibilities

31 OCT 2024 – CURRENT Habiganj , Bangladesh

ASSISTANT DIRECTOR (ADDITIONAL CHARGE) TRANSPORT SECTION,HABIGANJ AGRICULTURAL UNIVERSITY

1 APR 2022 – 30 SEP 2023 Mymensingh, Bangladesh

RESEARCH ASSISTANT (BAURES) DEPARTMENT OF FARM POWER AND MACHINERY, BANGLADRSH AGRICULTURAL UNIVERSITY

1 JAN 2024 – 15 JAN 2024 Dhaka, Bangladesh

TRANSECTION SERVICE OFFICER (TSO) IFIC BANK

● EDUCATION AND TRAINING

1 APR 2022 – 30 SEP 2023 Mymensingh, Bangladesh

MS IN FARM POWER AND MACHINERY Department of Farm Power and Machinery, Bangladesh Agricultural University

Website <https://bau.edu.bd> | **Field of study** Farm Power and Machinery | **Final grade** CGPA: 3.945 out of 4.00 (2nd Position) |

Thesis Automated Real Time Mango Grading Using Machine Vision Technique.

4 JAN 2017 – 10 MAR 2022 Mymensingh, Bangladesh

BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING Faculty of Agricultural Engineering, Bangladesh Agricultural University

Website <https://bau.edu.bd> | **Field of study** Agricultural Engineering | **Final grade** CGPA:3.677 out of 4.00 (6th Position) |

Thesis Hyper-spectral Imaging Technique for Quantification of Total Nitrogen in Soil.

1 JUN 2014 – 18 AUG 2016 Chittagong, Bangladesh

HIGHER SECONDARY CERTIFICATE (HSC) Board of Intermediate and Secondary Education,Chittagong

Website <https://ctgcollege.gov.bd/> | **Field of study** Science | **Final grade** GPA: 5.00 out of 5.00

1 FEB 2013 – 17 MAY 2014 Chittagong, Bangladesh

SECONDARY SCHOOL CERTIFICATE(SSC) Board of Intermediate and Secondary Education,Chittagong

Website <https://bise-ctg.portal.gov.bd/> | **Field of study** Science | **Final grade** GPA:5.00 out of 5.00 (With Board Scholarship)

12 DEC 2021 – 14 DEC 2021 Gazipur, Bangladesh

INDUSTRIAL TRAINING Bangladesh Agricultural Research Institute

Website <https://bari.gov.bd/>

15 DEC 2021 – 15 DEC 2021 Gazipur, Bangladesh

INDUSTRIAL TRAINING Agricultural Machinery and Testing Institute

3 JUL 2020 – 30 AUG 2020 Cox's Bazar, Bangladesh

PEACE BUILDING TRAINING 2020 Surge BAngladesh and EMK Center

28 SEP 2024 – 28 SEP 2024 Habiganj , Bangladesh

EFFECTIVE RESEARCH DESIGN, WRITING AND PUBLISHING Institutional Quality Assurance Cell , Habiganj Agricultural University

13 NOV 2024 – 13 NOV 2024 Habiganj , Bangladesh

OUTCOME-BASED EDUCATION AND TEACHING LOAD CALCULATION Institutional Quality Assurance Cell , Habiganj Agricultural University

25 DEC 2024 – 28 DEC 2024 Habiganj , Bangladesh

TRAINING ON PUBLIC PROCUREMENT MANAGEMENT Institutional Quality Assurance Cell , Habiganj Agricultural University

● PUBLICATIONS

2024

[Minimizing chemical fertilizer usage and improving soil nutrient and microbial activity through organic strategies in rice production](#)

Habibullah Siddiki, Bondhon Chakrabarti, Abdullah Al Masum, & Mamunur Rashid (2024). Minimizing Chemical Fertilizer Usage and Improving Soil Nutrient and Microbial Activity Through Organic Strategies in Rice Production. *Advances in Biotechnology & Microbiology*, 18(4), 555992.

Citation: Habibullah, S., Bondhon, C., Abdullah Al, M., & Mamunur, R. (2024)

2024
Short wave-near infrared spectroscopy for predicting soluble solid content in intact mango with variable selection algorithms and chemometric model

Most. Sapna Khatun¹, Abdullah Al Masum¹, Md. Hamidul Islam, Muhammad Ashik-E-Rabbani, Anisur Rahman*, Short wave-near infrared spectroscopy for predicting soluble solid content in intact mango with variable selection algorithms and chemometric model, Journal of Food Composition and Analysis 136 (2024) 106745

● **CONFERENCES AND SEMINARS**

17 NOV 2022 – 19 NOV 2022 Agricultural Engineering Division , The Institute of Engineers, Bangladesh
3rd Annual Paper Meet 2022

A.A. Masum, M.S.Khatun, M.a.Mim, M.H. Islam, A. Rahman,**Hyperspectral Imaging Technique for Quantification of Total Nitrogen in Soil** (Conference Presentation)

19 JUN 2023 – 19 JUL 2023 Bangladesh Agricultural University, Mymensingh
Sensor Based Variable-Rate Agrochemical Spraying System for Disease Control in Paddy field

25 JUL 2023 – 25 JUL 2023 Engineering Institute of Bangladesh,Dhaka
IoT Based Prepaid meter for Smart Irrigation

23 MAY 2024 – 24 MAY 2024 Sylhet Agricultural University, Sylhet-3100, Bangladesh
International Conference on Advanced Agricultural Research-2024 (ICAAR-2024)

Anisur Rahman, Abdullah Al Masum, Md. Mahedi Hasan Himel, M. Mirazus Salehin, Kazi Shakibur Rahman, Sahabuddin Ahamed and Mahjabin Kabir, **Automated Real-Time Mango Grading Based on Size Using Machine Vision Technique** (Conference Presentation)

● **HONOURS AND AWARDS**

2015
SSC Scholarship 2014 – Board of Intermediate & Secondary Education, Chittagong.

2022
National Science and Technology (NST) Fellowship 2022-23 – Ministry of Science and Technology, Bangladesh.

● **PROJECTS**

1 APR 2022 – 30 SEP 2023
Automated Real-Time Grading System for Potato Using Machine Vision Technology

Research Assistant
Project Number: 2021/1470/BAU

● **LANGUAGE SKILLS**

Mother tongue(s): **BENGALI**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Use of communication programs (Mail, Google Meet, Zoom, Skype) | Use of Email (Yahoo Mail, Gmail) | Good abilities of using communication programs (skype, zoom, mail) | Google suite -Gmail, Google Drive, Google Slide, Google Docs, Google Sheets, Google Forms, Google- | Proficiency of using computer and internet | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Basic knowledge in MATLAB | Basic Knowledge in AutoCAD and SolidWorks

● **ORGANISATIONAL SKILLS**

Student Advisor

Green Voice, Bangladesh Agricultural University, Mymensingh

Treasurer

Diba Swapnochari , Cox's Bazar

Founding Member

Project Hashimukh, Chattogram College

● **HOBBIES AND INTERESTS**

Travelling. Reading Books

I hereby consciously certify that all of the above information is correct and that it accurately represents my credentials, experience and myself. if there is any misinformation, I shall be held personally responsible for it.

Habiganj, Bangladesh , 6 Jan 2025



Abdullah Al Masum