



# Sayed Jaber Al-Hossain

**Date of birth:** 25/12/1999 | **Nationality:** Bangladeshi | **Gender:** Male | **Phone:** (+880) 1721907560 (Mobile) | **Email address:** [sjaber.agmech@hau.ac.bd](mailto:sjaber.agmech@hau.ac.bd) | **Email address:** [sayedjaber.sau@gmail.com](mailto:sayedjaber.sau@gmail.com) | **LinkedIn:** <http://www.linkedin.com/in/sayed-jaber-al-hossain-a40629256> | **Address:** Village: Katihara; Post Office: Bamoi; Thana: Lakhai; District: Habiganj, Post Code: 3340, Habiganj, Bangladesh (Home) | **Address:** West Vadoi, Habiganj Sadar, Habiganj-3300., 3300, Habiganj, Bangladesh (Work)

## ● ABOUT MYSELF

I am an Agricultural Engineer. My research interests focus on automation, artificial intelligence, computer vision, and precision agriculture to address real-world farming challenges. I have worked on developing intelligent systems using machine learning, data analysis, and image processing techniques. My work environment integrates field-level agricultural issues with modern digital technologies and data-driven approaches. Through interdisciplinary research, I aim to enhance efficiency, accuracy, and sustainability in agricultural operations. My work has the potential to shape future agriculture by enabling smart farming, reducing labor dependency, and improving overall productivity.

## ● WORK EXPERIENCE

29/03/2026 - CURRENT - HABIGANJ, BANGLADESH

**LECTURER** DEPARTMENT OF ALLIED SCIENCES, HABIGANJ AGRICULTURAL UNIVERSITY

- Teaching and Instruction
- Scholarly Research and Academic Contributions
- Curriculum Design and Educational Innovation
- Administrative and Departmental Duties
- Continuous Professional Growth
- Service to the University and Academic Community

**Business or sector** Education | **Department:** Allied Sciences | **Website:** <https://hau.ac.bd/>

01/01/2019 - 01/01/2020 - SYLHET, BANGLADESH

**RESEARCH ASSISTANT** DEPARTMENT OF FARM POWER AND MACHINERY, SYLHET AGRICULTURAL UNIVERSITY

Lab Experiment, Field Data Collection, Data Manipulation, Data analysis, and Report Preparation

01/09/2022 - 31/08/2023 - GAZIPUR, BANGLADESH

**RESEARCH ASSISTANT** BANGLADESH RICE RESEARCH INSTITUTE

Generating Questionnaire, Collaborating with farmer, Data collection, Data Manipulation, Data analysis, Thesis Preparation

## ● EDUCATION & TRAINING

31/01/2022 - 09/01/2024 - SYLHET, BANGLADESH

**MS IN FARM POWER AND MACHINERY**- DEPARTMENT OF FARM POWER AND MACHINERY, SYLHET AGRICULTURAL UNIVERSITY

**Field(s) of study:** Farm Power and Machinery | **Final grade:** GPA: 3.833 out of 4.00 | **Thesis:** Harvesting Performance of

Head Feed Combine Harvester As Affected By Paddy Field Length, Plant Density and Crop Cutting Height | **Website:** <https://www.sau.ac.bd/>

14/01/2017 - 20/01/2022 - SYLHET, BANGLADESH

**B. SC IN AGRICULTURAL ENGINEERING-** FACULTY OF AGRICULTURAL ENGINEERING AND TECHNOLOGY, SYLHET AGRICULTURAL UNIVERSITY

**Field(s) of study:**Agricultural Engineering | **Final grade:** GPA: 3.849 out of 4.00 | **Thesis:** Design and Fabrication of An Autonomous Rice Transplanter | **Website:** <https://www.sau.ac.bd/>

01/06/2014 - 18/08/2016 - DHAKA, BANGLADESH

**HIGHER SECONDARY SCHOOL CERTIFICATE (HSC)-** SHAHEED RAMIZ UDDIN CANTONMENT COLLEGE

**Field(s) of study:**Group: Science | **Final grade:** GPA: 5.00 out of 5.00 | **Website:** <http://srcc.edu.bd/>

01/01/2012 - 17/05/2014 - DHAKA, BANGLADESH

**SECONDARY SCHOOL CERTIFICATE (SSC)-** HAQUE SAHEB HIGH SCHOOL

**Field(s) of study:**Group: Science | **Final grade:** GPA: 4.88 out of 5.00 | **Website:** <http://hshs110234.edu.bd/>

## ● PUBLICATIONS

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### Potential of Vetiver Grass for Erosion Control and Slope Stabilization in Sylhet Region

Akter, T., Al-Hossain, S. J., Sagor, N. H., & Islam, M. Z. (2025). Potential of Vetiver Grass for Erosion Control and Slope Stabilization in Sylhet Region of Bangladesh: Journal of the Sylhet Agricultural University, 12(1), 142-152.

### Design and fabrication of an autonomous rice transplanter

Al-Hossain, S. J., Al Mamun, M. R., Sowrab, M. K. H., Soeb, M. J. A., & Saha, P. (2024). Design and fabrication of an autonomous rice transplanter. American Journal of Agricultural Science, Engineering, and Technology, 8(2), 39-48.

### Operational efficiency of combine harvesters on different field size in the selected area of Bangladesh

Hossen, M. A., Shirin, N., Paul, S., Paul, H., Islam, S., Ferdousi, H. E., ... & Yeasmin, T. (2023). Operational efficiency of combine harvesters on different field size in the selected area of Bangladesh. Bangladesh Rice Journal, 27(2), 67-82. .

### Vetiver Grass for Road Slope Protection through Soil Erosion and Runoff Reduction in a Haor Area of Sunamganj District

Tahmina Akter, Saumik Acharya, Sayed Jaber Al-Hossain, Golam Kibria Robbani. (In Press). Vetiver Grass for Road Slope Protection through Soil Erosion and Runoff Reduction in a Haor Area of Sunamganj District. Research in Agricultural Engineering.

## ● PROJECTS

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01/01/2019 - 01/01/2020

### **Design and Fabrication of an Autonomous Rice Transplanter**

Project Duration: 1 Year (01/01/2019 – 01/01/2020)

Funding Agencies: University Grants Commission (UGC) and Sylhet Agricultural University Research System (SAURES)

Role: Research Assistant

Status: Completed

01/09/2023 - 31/08/2024

### **Validation and Up-scaling of Rice Transplanting and Harvesting Technology in the Selected Sites of Bangladesh** Project ID: TF 89-AM/21

Funding Agency: Krishi Gobeshona Foundation

Role: Research Associate

Status: Completed

## ● LANGUAGE SKILLS

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Mother tongue(s): **BENGALI**

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	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>HINDI</b>	C2	A1	C1	C1	A1

## ● SKILLS

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Microsoft Office | Zoom | Python (computer programming) | Machine Learning • | GeoStudio 2012

## ● HONOURS AND AWARDS

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29/12/2022 Ministry of Science and Technology  
**National Science and Technology Fellowship (NST) 2022-23**

09/09/2023 Sylhet Agricultural University  
**Sylhet Agricultural University Research System Scholarship**

01/01/2011 The Education Ministry of Bangladesh  
**Full Free Studentship in JSC Examination**

## ● HOBBIES AND INTERESTS

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Travelling, Reading Books, Gardening, Sketch Art, Poetry Recitation, Chess

## ● EXTRA CURRICULAR EXPERIENCE

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01/01/2019 - 31/12/2020  
**Former Joint Secretary, Faculty of Agricultural Engineering and Technology Student Association, Sylhet Agricultural University**

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**Current Regional Ambassador, Smart Agro-Technology Innovation Youth Network (SAIYN), Bangladesh**

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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, 29/03/2026

  
Sayed Jaber Al-Hossain