

# Md. Rasel Basunia

Chittagong, Bangladesh

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## Personal Information

**Name:** Md. Rasel Basunia  
**Father's Name:** Md. Motiar Rahman Basunia  
**Mother's Name:** Mst. Aklima Begum  
**Marital Status:** Married  
**Nationality:** Bangladeshi  
**Religion:** Islam  
**Gender:** Male  
**Date of Birth:** 10/12/2001  
**Present Address:** Shaheed Abdur Rab Hall, University of Chittagong, Chittagong, Bangladesh.  
**Permanent Address:** Village: Gakula, Upozilla: Nazimkhan, Zilla: Rajarhat, District: Kurigram.

## Career Objective

Highly motivated and dedicated graduate in Electrical and Electronic Engineering with strong expertise in power systems and teaching experience in EEE-related subjects. Passionate about contributing to academia through teaching, innovative research and monitoring students.

## Education

Degree/Certificate	Institute/Board	GPA/CGPA	Year
JSC (Junior School Certificate)	Merit Care School, Dinajpur	5.00/5.00	2013
SSC (Secondary School Certificate)	Sonalur Kuti High School, Dinajpur	5.00/5.00	2016
HSC (Higher Secondary Certificate)	Tongi Government College, Dhaka	4.67/5.00	2018
B.Sc in Electrical and Electronic Engineering	University of Chittagong, Chittagong	3.62/4.00	2022
M.Sc in Electrical and Electronic Engineering	University of Chittagong, Chittagong	Ongoing(2S)	2025 (Expected)

## Research Interests

- Electrical System Design
- Power System Stability and Control
- Switchgear & Protection
- Renewable Energy Integration
- Smart Grid Technologies
- Energy Storage Materials

## Research Experience

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### Postgraduate Thesis Researcher

MSc in Electrical and Electronic Engineering

University of Chittagong in collaboration with Atomic Energy Centre (AEC), Savar, Bangladesh

Jan 2025 – Present

- Thesis Title: “Study of AC magnetic heating characteristics of  $Co_{0.5}Zn_{0.5}Fe_2O_4$  nanoparticles for magnetic hyperthermia therapy”

## Software & Technical Skills

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MATLAB

SIMULINK

Python

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ETAP

Power World Simulator

ADS

LabView

PSpice

LATEX (Professional)

MS Office

## Honors and Awards

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- Third Merit Award(Chairman’s Award) - Department of EEE,University of Chittagong, 2025.

## Industrial Training / Internships

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### Industrial Training on Distribution Transformer Manufacturing and Testing

General Electric Manufacturing Company Ltd. (GEMCO), North Potenga, Chittagong

During BSc in Electrical and Electronic Engineering, University of Chittagong

- Gained hands-on experience in transformer core assembly, winding, and insulation.
- Observed and participated in testing procedures for quality control and performance validation.
- Learned about manufacturing workflows, safety standards, and test bench instrumentation.

## Journal Reviewer

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**Reviewer**, *International Journal of Dynamics and Control (Springer Nature)*

Reviewed 2 manuscripts | | Selected for subject expertise in control systems | | Power engineering

## References

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### 1 Dr. Hasan Khaled Rouf

Professor, Electrical and Electronic Engineering, University of Chittagong, Chittagong-4331

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### 2 Saumitra Kumar Kuri

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