

# Md Naiem Gazi

Nazirghat Khulna, Bangladesh

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## RESEARCH INTERESTS

Sustainable and Circular Materials · Electrochemical and Battery Materials · Simulation

## EDUCATION

- |  |                        |
|--|------------------------|
| • <b>Chittagong University of Engineering and Technology (CUET)</b>        | Chittagong, Bangladesh |
| <i>BSc in Mechanical Engineering; CGPA: 3.39 (Last 4 semesters: 3.49+)</i> | 2019 – 2024            |
| • <b>Govt. M.M. City College</b>   | Khulna, Bangladesh     |
| <i>HSC; GPA: 5.00 (89.31% average)</i>                                     | 2017 – 2018            |

## RELEVANT COURSEWORK

Applied Thermodynamics	Chemistry of Corrosion, Environment and Materials
Measurement and Quality Control	Conduction and Radiation
Statistical Analysis and Complex Variable	Differential Equations and Vector Calculus
Numerical Methods in Engineering and MATLAB	Production and Operation Management

## UNDERGRADUATE PROJECT AND THESIS

- |   |             |
|---|-------------|
| • <b>Study the Physical Propertise of Basic Steel Slag for Sustainable Construction</b> | 2023 – 2024 |
| <i>Supervised by Prof. Dr. MD Arafat Rana</i>   |             |

## PUBLICATIONS

- |  |               |
|--|---------------|
| • <b>Curie Temperature Variation in Rare Earth Doped Spinel Ferrites: A Review</b> |               |
| <i>Springer JOM: The Journal of The Minerals, Metals &amp; Materials Society</i>   | February 2025 |

## PROFESSIONAL EXPERIENCE

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|--|---------------------|
| • <b>Khorshed Metal Industries (Hamko Battery)</b>   | Khulna, Bangladesh  |
| <i>Assistant Engineer (Production)</i>   | Nov 2024 – Present  |
| – <b>Applied Materials Research:</b> Conducted research on lead-oxide and lead-alloy systems for battery plate manufacturing, focusing on composition-processing-property relationships. Utilized OES for chemical analysis. |                     |
| – <b>Oxide Formation and Processing:</b> Investigated oxide formation, milling behavior, and paste homogeneity to ensure plate mass uniformity and structural integrity.   |                     |
| – <b>Electrochemical Analysis:</b> Evaluated electrochemical formation processes to optimize material activation and performance.  |                     |
| – <b>Process Documentation:</b> Maintained logs and performed root-cause analysis to improve process efficiency.   |                     |
| • <b>Infobit Lab</b>   | Khulna, Bangladesh  |
| <i>Management Trainee Officer (R&amp;D)</i>  | Jun 2024 – Oct 2024 |
| – <b>Feasibility and Community Survey:</b> Conducted field-based surveys in Botiaghata for semi-intensive shrimp culture projects. Compiled findings for project planning.   |                     |
| – <b>Renewable Energy Research:</b> Gathered and analyzed data on rural renewable energy solutions, focusing on solar panel systems.   |                     |
| – <b>Project Support:</b> Assisted in developing training materials and supported RD initiatives in sustainable solutions.   |                     |

## TECHNICAL SKILLS

- **Programming Languages:** Python, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X
- **Simulation Software:** COMSOL, MATLAB, SolidWorks Simulation, LAMMPS, OVITO
- **Tools/Platforms:** Git, GitHub, Visual Studio Code, Overleaf, SPSS, Canva, Microsoft Office
- **CAD Software:** SolidWorks, AutoCAD, Design Modeler

## HONORS & AWARDS

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|--|----------|
| • <b>Government Merit Scholarship for HSC Result by Government of Bangladesh</b> | Jan 2019 |
| • <b>DBBL Scholarship (HSC) by Dutch-Bangla Bank Limited</b>                     | Feb 2019 |

## LEADERSHIP & ACTIVITIES

- |  |                     |
|--|---------------------|
| • <b>Photographic Secretary, Green for Peace</b> | Jul 2021 – Feb 2022 |
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## TEST SCORES

English (IELTS): Overall 6.5 (L: 7, R: 6, W: 6, S: 6.5)

Test Date: 15 Nov 2025