Md. Aslam Beg Akash

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Professional Summary

Recent Mechanical Engineering graduate from Khulna University of Engineering & Technology (KUET) with an overall CGPA of 3.42/4.00 and 3.54/4.00 over the final six semesters (last three years). Hands-on experience in materials fabrication, finite element analysis and engineering calculations. Seeking an entry-level engineering position where I can bring my practical skills to work and solve real engineering problems.

Education

Khulna University of Engineering & Technology (KUET) Khulna, Bangladesh
Bachelor of Science (B.Sc.) in Mechanical Engineering *March 2022–August 2026*
CGPA: 3.42/4.00 (3.54/4.00 in the final six semesters)

Technical Skills

- **CAD & Simulation:** SolidWorks (3D modeling); Abaqus and PrePoMax (finite element analysis); LAMMPS and OVITO (molecular dynamics simulation and visualization).
- **Programming & Data Analysis:** Python (NumPy, pandas, SciPy, Matplotlib) for numerical analysis, data processing and plotting; C; scikit-learn and Keras (machine learning).

Industrial Training

RAK Ceramics Bangladesh Ltd. May 2025

- Ceramic body formulation and raw-material preparation for tiles and sanitaryware.
- Pressing and firing stages, including kiln and furnace operation.
- Quality-control parameters for finished tiles and sanitaryware.

Rahimafrooz

- Industrial visit to observe plant operations, production processes and quality control.

Undergraduate Thesis

Fracture Behavior and Toughness of Ti_2N MXene Monolayer under Uniaxial Tension: A Study Using Molecular Dynamics and Fracture Mechanics August 2026
Supervisor: Dr. Md. Abdul Wakil, KUET *4.5 credits (1.5 + 3.0)* • *Grade: A+*

- Investigated the fracture behavior of a two-dimensional nanomaterial (Ti_2N MXene) under tension at different temperatures using molecular dynamics simulations.
- Examined how sensitive its strength is to the size of a pre-existing crack or defect, and estimated its fracture toughness.
- Compared several fracture mechanics models, including quantized fracture mechanics (QFM) and nonlinear fracture mechanics (NLFM), against the simulation results.

Awards & Activities

- Organizer, IGNITION 2026, National Mechanical Festival, KUET.
- Technical Board Scholarship, KUET (awarded for top-half class standing).
- Member, runner-up team, inter-university football tournament.
- Runner-up, inter-hall chess tournament.
- Champion, PESM eFootball gaming tournament, organized by KUET Cyborg Gaming Club.

References

Prof. Dr. Md. Abdul Wakil
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Prof. Dr. Md. Ashraful Islam
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