

RAHAT HASAN

Narayanganj, Bangladesh | +8801318371512

Email: 1827022rahathasan@gmail.com | [LinkedIn](#)

SUMMARY

A passionate and enthusiastic Materials Science and Engineering graduate with a deep interest in research and development. Highly motivated and adaptable, I thrive in exploring new scientific challenges while continuously expanding my knowledge base. With strong punctuality, discipline, and fast-learning capability, I aim to contribute meaningfully to academic research and establish myself as a valuable asset in advancing materials science.

RESEARCH INTEREST

Synthesis and Development of High Entropy Alloys, Additive Manufacturing, Advanced manufacturing, Materials Processing, Optoelectronic materials

ACADEMIC CREDENTIALS

Bachelor of Science- Materials Science and engineering March 2024

Khulna University of Engineering and Technology, Bangladesh **CGPA: 3.56/4.00 (Last 61 credit: 3.97)**

RESEARCH EXPERIENCE

- Undergraduate thesis on “*Atomistic Simulation of Mechanical Behavior and Deformation Mechanism in HfNbTaTiZr High Entropy Alloy: Influence of Strain Rate and Temperature*” [**Under review in Result in Materials**]
- Riazul Islam Md, Islam J, **Hasan R**, Hasan M. *Effect of alloying element content, temperature, and strain rate on the mechanical behavior of NbTiZrMoV high entropy alloy: A molecular dynamics study*. Mater Today Commun 2024;40:110071. <https://doi.org/10.1016/j.mtcomm.2024.110071>.

WORK EXPERIENCE

Graduate Engineer Trainee December 2024 - Present

Tex Fasteners [A metal Zipper and Button Manufacturing Industry]

UNDERGRADUATE PROJECTS

- Alternative materials selection for badminton racket using CES Edupack June 2023
- Design of per day 50 ton capacity ferritic stainless steel ingot production plant November 2022

HONORS AND AWARDS

- Dean’s Award (2 times)-** For achieving a grade of minimum 3.75 in a session 2020-21, 2021-22
- University Technical Merit Scholarship** 2018-19, 2019-20, 2020-21, 2021-22

SKILLS

- Technical Skills:** Lammps, AtomsK, Ovito, CES Edupack, Origin, Excel, Microsoft Office, Python (Numpy, Pandas)
- Soft Skills:** Adaptability, Team work, Problem solving, Critical thinking