Titu Nath

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Career Objective

As a final-year mechanical engineering student with a proven track record of excellence in academics, leadership, and international competitions, I aspire to bring my skills and passion for innovation to a dynamic career in mechanical engineering. With a keen ability for analytical problem-solving, strong communication, decision making, teamwork and exceptional organizational skills, I aim to contribute to cutting-edge projects, drive efficiency, and adapt to evolving industry demands.

Education

Khulna University of Engineering & Technology — January 2020 to April 2025(Expected)
Bachelor of Science in Mechanical Engineering
CGPA: 3.62/4.00(Upto 7th semester)

Chittagong Engineering University School & College — May 2017 to June 2019
Higher Secondary Certificate (HSC)
GPA: 5.00/5.00

Rangunia Khilmogal Rashik High School — January 2015 to April 2017
Secondary School Certificate (SSC)
GPA: 5.00/5.00

Thesis Experience

Investigating Hemodynamic Changes in Bifurcated Arteries with Varying Eccentricity Using Nanofluid Simulation. Undergraduate Thesis | Jan 2024-Present

Carried out pioneering research to improve the hemodynamics changes of blood flow in a bifurcated arteries using nanomedicine.

Projects Experience

Formula Student Racing Car (Combustion Vehicle)

Automotive Project (Non-Academic) | February2021 - July 2024

I was involved actively for nearly three years with mechanical control, fuel, cooling, and lubrication systems, as well as aerodynamics and body systems, for the first-ever Formula Student team from KUET.I was participated in Formula Student UK (concept class) and Formula SAE-2023, Japan (on-site), and successfully passed "Mechanical Inspection" for the first time from Bangladesh despite having uncountable difficulties and limited opportunities.

Construction and Performance Test of a Thermoelectric Refrigerator Using Peltier Effect

Academic Project | November 2022 - December 2023

Conducted extensive research on thermoelectric refrigeration using the Peltier effect. A thermoelectric refrigerator was built to observe the cooling effect under different conditions.

Technical Skills

Engineering Software	: Ansys, SOLIDWORKS, Abaqus CAE, AutoCAD.
Programming Language	: C,MATLAB.
Data Analysis	: Origin.
Documentation and Presentation	: Microsoft Excel, Microsoft Word, Microsoft PowerPoint,EndNote.
Image Processing Software	: Adobe Photoshop, Adobe Lightroom, Adobe Illustrator.
Others	: Photography.

Co-curricular Activities

Sector Co-Lead at Team Kiloflight (Formula Student Team of KUET) 2024-Present
President at KUET Photographic Society-KUETPS 2024-Present
CEO at LOOP(Control Engineering Club of KUET) 2024-Present
President at Sanatani Student's Welfare Association of KUET 2024-Present
CEO at KUET Robotics and IoT Innovation Club-KRIoTIC 2023-2024

Voluntary Activity

DREAM-Voluntary Blood Donation Society, KUET 2020-2024
Volunteer (2020-2023); **Treasurer** (2023-present)

I contributed to the club for nearly 4 years, managing blood donor coordination among campus students, organizing blood donation campaign, and facilitating the process of connecting individuals in need of blood with willing donors. As a pioneer member, I was crucial in encouraging volunteer teamwork, participating in critical decision-making, and effectively communicating with a varied spectrum of persons to promote blood donation.

Organizing and Planning

Ignition - 2023 (National Mechanical Festival) Organizing Member
Workshop on Fundamentals of Automobile Engineering Instructor & Planner
Workshop on C programming and Introduction to Robotics Instructor & Planner
Award Giving Ceremony of Blood Donors of KUET -2024 Organizing Committee
Voluntary Blood Grouping Campaigns for Villagers Organizer and Planner

Scholarships and Awards

Dean's Award
For keeping CGPA of 3.75 or above in one academic year 2022-23
Undergraduate Technical Scholarship
Awarded for academic excellence 2020 - 2024

Certifications & Achievements

Professional Certificate : CSWA, Introduction to AutoCAD(From EDGE)
International Events : Formula Student UK(2021, 2022)
Formula Student Japan(on-site) : Position (2023): Overall 32/77; Cost-29/77, Design-30/77, BPP-32/77.
Extracurricular Certificate : Best Volunteer Award & Best Co-Organizer(From Blood Donation Society of KUET),1st Runner-up in Diversity S5(Intra KUET Photo -graphy contest),Presentation Award (From KUIC) .

Industial Visit:

HAMKO Group, Khorshed Metal Industries Abdullah Battery Co. (Pvt.) Ltd 2023
Payra 1320 MW Thermal Power Plant 2023
Chattogram Port 2024

References

Dr. Mohammad Mashud
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