



Sahed Mahmud

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Career Objective:

Certified SolidWorks Professional (CSWP) with a strong background in Materials Science and Engineering. Skilled in CAD, DFT simulations, and materials design with proven leadership through academic and research projects. Seeking opportunities to apply technical expertise and innovation in advanced engineering roles.

Educational Qualification:

B.Sc Engineering in Materials Science and Engineering Khulna University of Engineering and Technology, Khulna-9203 CGPA: 3.00 in a scale of 4.00	(2019 – 2025)
Higher Secondary Certificate (H.S.C) Science Group Government K.C. College, Jhenidah-7300 GPA: 5.00 in a scale of 5.00	(2016 – 2018)
Secondary School Certificate (S.S.C): Science Group Jhenidah Government High School, Jhenidah-7300 GPA: 5.00 in a scale of 5.00	(2014 – 2016)

Industrial Tours & Visits:

Industrial Training (1 Week):

- GPH Ispat Ltd., Sitakunda, Chattogram, (Year: MAY 2023)

Industrial Visit (1 Day):

- BSRM Steel Ltd., Chattogram, (Year: JAN 2024)
- GPH Ispat Ltd., Sitakunda, Chattogram, (Year: JAN 2024)
- KSRM Steel Plant, Chattogram, (Year: JAN 2024)
- AKS (Abul Khair Steel), Chattogram, (Year: JAN 2024)
- BRB Cable Ltd., Kushtia. (Year: OCT 2023)
- Khulna Shipyard Ltd., Khulna, (Year: NOV 2022)

Projects:

Undergraduate Thesis:

- Tuning Band Gap and Optical Behavior of ASiF_3 ($A = \text{Na, K, Rb}$) Perovskites under pressure: A Density Functional Theory Study for Enhanced Optoelectronic applications (Year: 2024)

Research Project:

- Evaluation of the Impact of the Eggshell Filler on the Mechanical Properties and Biodegradability of Hybrid Composites, (Year: 2023)

Co-curricular & Leadership Activities:

- **Co-Founder**, KUET Research Society(KRS)
(Year: 2023)
- **President**, Materials Science and Engineering Unit - KUET Research Society(KRS)
(Year: DEC 2023 – JUL 2024)
- **Vice President**, Students Association of Materials Science and Engineering(SAMSE-KUET)
(Year: MAR 2023 – MAR 2024)
- **Vice President**, MetaMaterials Club of KUET(MMCK)
(Year: JUN 2023 –MAR 2024)
- **Assistant General Secretary**, MetaMaterials Club of KUET(MMCK)
(Year: OCT 2022 – JUN 2023)
- **Event Manager**, Computer Aided Designers(CADers)
(Year: APR 2022 – FEB 2023)
- **Assistant Human Resources Officer**, Computer Aided Designers(CADers)
(Year: JAN 2020 – APR 2022)
- **Teacher**, Durbin Academic & Admission Coaching
(Year: DEC 2018 – JAN 2020)
- **Senior Patrol Leader**, Jhenidah Government High School Scout Unit
(Year: JAN 2015 – JAN 2016)

Workshops & Training Programs:

Workshops:

- Workshop on ‘Solidworks Workshop’ organized by CADers, KUET. (Year: 2019)

Webinars:

- Webinar on ‘Prospects of SolidWorks’ (Year: 2021)
- Webinar on ‘CAD for Higher Studies & Research’ (Year: 2020)
- Webinar on ‘Aspects of Product Design’ (Year: 2020)

Key Proficiencies:

- Computer Aided Design
- Density Functional Theory
- Molecular Dynamics
- Materials Selection
- Leadership
- Programming

Software Skills:

- Solidworks
- AutoCad
- Keyshot
- Materials Studio
- OriginPro
- LAMMPS
- CES Edupack
- Python
- Microsoft office (Excel, PowerPoint, Word)

Certifications:

- Certified SOLIDWORKS Professional (CSWP) provided by Dassault Systèmes. (Year: JUL 2021)
- Certified SOLIDWORKS Associate (CSWA) provided by Dassault Systèmes. (Year: JAN 2021)

References:

- Jahirul Islam
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- Md. Salman Haque
Assistant Professor, Dept of MSE, KUET
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