

MD IRFAN KHAN

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PROFILE SUMMARY

An experienced mechanical engineer with a proven track record in problem-solving and action-oriented behavior. Demonstrated intellectual curiosity and a strong desire to innovate, with experience in mechanical design, prototyping, simulation, and testing of consumer electronic products. Seeking a challenging role in a dynamic company to contribute expertise and drive continuous learning and development.

TECHNICAL PROFICIENCY

- CAD Tools: SolidWorks, AutoCAD, CATIA, Fusion 360
- CAM Tools: HSMWorks, SolidCAM
- Simulation Tools: ANSYS, CMG, Tecnomatix
- Programming Proficiency: Matlab, Python, Machine Learning
- Documentation and Presentation: Microsoft Office

EDUCATION

Master of Science in Mechanical Engineering

Expected: Dec 2024

Thesis: Clean Energy & Sustainable Environment by CO₂ Mitigation Strategies, H₂ Storage
The University of Texas at Tyler, Tyler, TX | GPA 4.00

Bachelor of Science in Mechanical Engineering

Jan 2017

Ahsanullah University of Science and Technology, Dhaka, Bangladesh | GPA 3.495

RESEARCH EXPERIENCE

Graduate Research Assistant

Jan 2023 - Present

The University of Texas at Tyler, Tyler, TX

- Applying problem-solving skills to collect, analyze, and interpret data for research initiatives
- Preparing reports, manuscripts, and presentations for scientific conferences and publications

PUBLICATION

- A.Khanal, **Md Irfan Khan**, M.F. Shahriar (2024). Comprehensive Parametric Study of CO₂ Sequestration in Deep Saline Aquifers. Chemical Engineering Science. Doi: 10.1016/j.ces.2024.119734

WORK EXPERIENCE

Lecturer, Industrial and Production Engineering Department

Dec 2019 – Oct 2022

European University of Bangladesh, Dhaka, Bangladesh

- Planned, prepared, and conducted research on lessons for a comprehensive curriculum
- Conducted classes and lab experiments to enhance learning
- Invigilated examinations to maintain academic integrity and evaluated students' performance

Mechanical Design Engineer, Research and Development Department

Jun 2017 – Nov 2019

Walton Digi-Tech Industries Ltd., Gazipur, Bangladesh

- Developed conceptual models and DFM for computer and accessories products
- Executed prototype manufacturing of conceptual models using the additive manufacturing process
- Led multiple specialized teams for product development and process planning
- Involved in machinery sourcing for production and R&D
- Designed packaging for consumer electronics products
- Performed engineering calculations related to sizing, performance, tolerance, and assembly
- Created reliable designs through a comprehensive experimental development test program

CERTIFICATION

Mechanical Design at the Level of Professional

2021

Issuing Organization: Dassault Systems

Additive Manufacturing at the Level of Associate

2020

Issuing Organization: Dassault Systems

The Elements of AI

2019

Issuing Organization: University of Helsinki

AWARDS

- 3rd Place (Graduate Poster Presentation) at the 8th annual Lyceum Research Showcase 2023
- 2nd Place at the business model competition by East Texas Entrepreneurship Center 2023