Fatima Moizuddin

LinkedIn | fm467@cornell.edu

EDUCATION

Cornell University

Bachelor of Science, Mechanical Engineering

Graduation Date: June 2028

WORK EXPERIENCE

Founder & Curriculum Lead *August 2022-Present*

Biomyst- Biotech-focused educational and research Org, (Acquired by UAE Genetic Diseases Association)

- Developed a comprehensive biotechnology educational database for student learning and research.
- Organized and led 8 biotechnology bootcamps attended by over 150 students Collaborated with the UAE Genetic Diseases Association (UAEGDA) under the leadership of Her Highness Dr. Mariam Matar, assisting in the organization of international conferences, including ZIMAM and COP28

Junior Mechanical Designer *May 2025 - Present*

First Gulf Sign- Digital Printing & Advertising company May 2025 - Present

- Lead kinetic signage projects. Created the initial conceptual designs and visual representations of structures' forms and motions leveraging CAD software
- Conducted structural analysis and simulations using FEA software to ensure design stability
- Calculated stress points and load distributions while creating prototypes via 3D printing

Marketing Intern *May 2025-Present*

eCornell

- Managed Salesforce Pardot campaigns to support marketing initiatives and improve audience engagement.
- Coordinated Salesforce updates during new course launches to ensure accurate data and smooth enrollment processes.
- Maintained and updated the company website using WordPress, enhancing accessibility and user experience.

Researcher *January 2023 - October 2023*

- Published research paper on Quantum Effects in Biological Systems: Enzymatic Reactions & Photosynthesis in the International Journal of Science and Research
- Analyzed wave function collapse via calculus. Explored entanglement, coherence & tunneling in reactions. Examined effects of findings on future of Quantum Computing.

Research Assistant
The Ananth Group *August 2025-Present*

- Conducting quantum mechanical and molecular dynamics calculations to simulate electron transfer processes
- Working to analyze computational results to understand charge transport mechanisms in complex chemical systems

SKILLS & INTERESTS

Skills: Python, Fusion360, Research Scientific Analysis, WordPress, Excel, SQL, Salesforce