

# Rezwan Islam

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## SUMMARY

Results-oriented engineering professional with expertise in mechanical design, digital product management, and regulatory compliance. Proven track record in leading cross-functional teams, optimizing workflows, and delivering innovative solutions. Skilled in Agile methodologies, data analytics, and sustainable design practices, driving operational efficiency and exceeding project goals. Specialized experience in nuclear engineering, HVAC systems, and CRM platform integration, with strong technical proficiency in tools such as SolidWorks, ANSYS, AutoCAD, and advanced data analytics platforms.

## EXPERIENCE

### Digital Product Management Intern | Rocket Mortgage | May 2024 - December 2024

- Collaborated with engineering and design teams to integrate a new Plaid CTA feature, applying software development principles and optimizing backend processes, resulting in a 400% increase in account creation efficiency.
- Developed integration requirements for an AI-driven chatbot to streamline the onboarding process, working closely with engineers to ensure seamless functionality and system compatibility, reducing banker queries by 40%.
- Led the design and implementation of a Rocket Homes app feature, partnering with developers to refine system architecture for side-by-side house comparisons, increasing user engagement by 20% and earning the Tech Demo Award for innovative functionality..

### Project Manager | Dual Fuel | New York, NY | August 2023 - November 2023

- Oversaw the removal and installation of 8 critical system components at Edenwald Houses, including vacuum tanks and pumps, reducing equipment malfunction rates by 15% and achieving a 30% improvement in on-site safety compliance within the first month.
- Ensured all projects adhered to stringent regulatory requirements, including OSHA 1910 standards and NYC DOB codes.
- Managed and completed 3 major NYCHA installation projects involving vacuum tanks, pumps, and boiler systems, improving on-site operational efficiency by 25% and ensuring compliance with OSHA and NYC building codes.
- Supervised RFIs, purchase orders, and equipment submittals, aligning closely with design specifications and achieving a 20% increase in cost-effectiveness across all project stages.
- Conducted field investigations for 3 NYCHA projects to assess site conditions and verify compliance with project plans, resulting in zero deviations from scheduled timelines over 6 months.
- Engineered HVAC system design enhancements for 3 NYCHA projects, integrating advanced energy-efficient solutions, resulting in a 20% reduction in heating costs and achieving compliance with NYC energy mandates within 4 months.

### Mechanical Engineer | Zachry Nuclear Engineering | Stonington, CT | May 2021 - January 2023

- Conducted comprehensive heat transfer analysis for Arkansas Nuclear One Plant design modification, ensuring HDPE pipe temperatures remained below 120°F over 10 hours, validating safety and regulatory compliance standards.
- Evaluated the addition of 10 electrical equipment units in a 5,000 sq. ft. Control Room, determining a <2% increase in heat load using advanced assessment techniques, ensuring system integrity and efficiency.
- Led a jib crane modification project, increasing cleaning process speed by 400% for strainer maintenance while ensuring compliance with ASME NOG-1 standards for nuclear crane operations.
- Authored and revised construction drawings for turbine upgrade projects, ensuring ASME compliance, reducing design review time by 30%, and improving cross-departmental collaboration.
- Integrated Energy Codes into turbine upgrade design reviews, ensuring ASHRAE compliance, reducing regulatory approval timelines by 20%, and enhancing project sustainability and efficiency.

## EDUCATION

### MBA Candidate (Evening Program) | Baruch College, Zicklin School of Business | 4.00

### Bachelor of Engineering in Mechanical Engineering | The City College of New York | 3.83

- Specialized in Nuclear Engineering and Finite Element Analysis using SolidWorks.

## LEADERSHIP

### Team Lead | 2024 | Cornell EMI Corning Case Competition | 2024

- Formulated a dual-pronged strategy to address VinFast's negative profit margins by implementing short-term inventory reduction strategies to decrease overstock by 25% and proposing long-term market expansion initiatives.

### Vice President | Baruch College | Baruch Data Science & Analytics Society (DSAS) | February 2024 - December 2023

- Led the communication team for DSAS at Baruch, managing email marketing, LinkedIn, and Instagram campaigns to boost club involvement, increasing student engagement by 300% in 4 months.

## SKILLS

**Engineering & Management:** ANSYS, AutoCAD, Revit, Asana, Zendesk, Revu Bluebeam, SolidWorks, OSHA 40 certified, Creo, Equest, Energyplus

**Technical & Analytical:** Excel, PowerPoint, Python, Tableau, SQL, Figma, Adobe Analytics, Google Suite, Procore, OSHA 40 Certified