NOOR MARZOUK

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EDUCATION

Northeastern University | B.S. in Mechanical Engineering, Minor in Business Administration | Boston, MA
Expected Graduation: April 2028

- **Relevant Coursework:** Thermodynamics, Mechanics of Materials, Material Science, Dynamics, ME Design and Computation, Probability and Economics, Calculus 1-3 & Differential Equations, Physics 1 & 2, Innovation, Marketing, Accounting
- Dean's List, Lean/Six Sigma Certified

Shenendehowa High School | Clifton Park, NY
September 2019 to June 2023

- **Recognition/Awards:** Seal of Biliteracy for French, New York Water Environment Association 2023 Scholarship, High Honor Roll

EXPERIENCE

Insulet Corporation | Boston, MA | Mechanical Engineering Co-op, Plant Support
January 2026 to June 2026

- Led a Six Sigma/Lean certification project that reduced production scrap from 15% to 0.9% (94% reduction), generating $132K+ in annual savings using DMAIC and fishbone root-cause analysis.
- Executed 30 engineering test runs involving 38,000+ parts in a manufacturing cleanroom to support component qualifications.
- Performed R&D laboratory testing using CT scanning, Instron, OGP, Keyence, leak testing, and humidity chambers, following Test Method Validation protocols to support material and second-source supplier qualifications and evaluate component durability and failure modes
- Collaborated with cross-functional engineering teams and suppliers to troubleshoot component issues and improve manufacturing processes through root-cause analysis.
- Analyzed manufacturing and test data using JMP, Minitab, Excel, and myVGL to identify trends, support component qualification, and validate reliability, modeling legacy components in SolidWorks for design reference.

Apex LLC | Boston, MA | Civil/Environmental Engineering Co-op
January 2025 to June 2025

- Developed water main base maps, tie-cards for water system components, treatment plant design sketches, and record drawings using Civil 3D, AutoCAD, and ArcGIS for five different ongoing projects.
- Collected 1,000+ water asset GPS points using ArcGIS Field Maps and updated utility maps for four Massachusetts municipalities.
- Validated contractor invoices against their estimated bid values and technical scope using Excel.
- Created submittals and RFIs for several ongoing water treatment plant projects.

Northeastern University | Boston, MA | Mentor for Cornerstone of Engineering 1+2
September 2024 to December 2024

- Mentored 10 first-year students in their engineering foundation class.
- Guided students in their approach to develop and design an interactive model that promotes sustainability over the semester.

PROJECTS

Magical Green Roofs | Northeastern University | Cornerstone of Engineering Project
September 2023 – December 2023

- Co-designed a museum exhibit teaching sustainable green roof concepts to children, utilizing AutoCAD, SolidWorks, and laser-cut/3D printed components.
- Programmed an interactive game element using Arduino and MATLAB to drive the exhibit's hands-on learning module.

TECHNICAL SKILLS

- **CAD Programs:** SolidWorks, AutoCAD, Onshape, Autodesk Inventor
- **Data Analysis/Programming:** Excel, JMP, Minitab, MATLAB, C++, ANSYS
- **Manufacturing/Testing:** Instron, OGP, Keyence, Leak Testing, Humidity Chambers, Plant/Clean Room
- **Certifications:** Lean/Six Sigma Tools

INTERESTS/CLUBS: NU Theme Park Engineering; NU American Society of Mechanical Engineers; NU Chi Omega Sorority (Career & Personal Development Chair + Recruitment Guide); NU Concrete Canoe; Dance; Choir & Theater