

JohnMichael Manzi

manzi.j@northeastern.edu ❖ (401) 864-4443 ❖ Boston, MA

EXPERIENCE

SharkNinja

Test Engineer

July 2023 – December 2023

Needham, MA

- Developed test procedures and designed custom 3D-printed test fixtures for the Ninja Testing team using SolidWorks, improving test repeatability and reducing setup time
- Supported root cause analysis initiatives to reduce field returns and strengthen product reliability across key SKUs and reported findings to R&D and NPD engineering teams
- Contributed to DfX reviews and corrective action planning, aligning quality efforts with cross-functional teams in engineering, manufacturing, and compliance
- Built and managed a thermodynamic performance database of Ninja Kitchen products, enabling quick comparisons across models for future design enhancements as part of the product development process

Mechanical Engineering Capstone Project

May 2023 – May 2024

- Led design and build of a Bluetooth-enabled, voice-activated pitching machine for a client with mobility impairments, using Python code to enable Bluetooth control via hand and head movements and voice recognition
- Used SolidWorks simulations and prototyping to validate mechanical subsystems and presented findings to capstone panel
- Integrated user feedback through multiple test cycles to iterate and deliver a functioning, client-validated final product

NERF, Hasbro

Mechanical Engineer

July 2022 – December 2022

Pawtucket, RI

- Conducted rigorous mechanical and aerodynamic testing of NERF Gelfire and Elite 2.0 products during multiple design phases
- Researched consumer insights to drive test procedures to identify design flaws and recommended updates, enhancing product consistency and safety
- Applied DFMEA and root cause analysis to post-launch quality issues, increasing customer satisfaction and ensuring products reached target 39% global profit margin
- Partnered with cross-functional teams to accelerate time-to-market on a new flagship product that achieved a 45% margin

Globe Composite Solutions

Manufacturing Engineer

July 2021 – December 2021

Stoughton, MA

- Inspected manufacturing processes of the on-site polyurethane manufacturing facility for federal compliance and optimization, reducing downtime using Six Sigma methodologies
- Developed SolidWorks models for US Navy hardware systems, passing third-party validation and regulatory compliance reviews
- Updated legacy CAD systems and standardized process documentation to improve version control and traceability

Steel & Rye Restaurant

Server, Host

January 2025 – Present

Milton, MA

- Coordinate high-volume service efficiently using POS and reservations software (Toast, OpenTable)
- Maintain strong communication across teams and ensure customer needs are met through extensive menu knowledge

EDUCATION

Northeastern University

Bachelor of Science in Mechanical Engineering, Minor in Experience Design

Boston, MA

- Awards: Dean's List, Best Prototype Testing – Mechanical Engineering Capstone
- Study Abroad: Bergen, Norway - Engineering Computation and Design to Harness Clean Energy
- Activities: Survivor: Northeastern (President and Host), No Jokes Improv Troupe (Scheduling Coordinator, Social Media Coordinator, Performer), American Society of Mechanical Engineers (Member)

SKILLS

Testing & Analysis: Performance Testing, Test Fixture Design, Test Procedure Development, Failure Analysis, Root-Cause Analysis, Problem Solving, Process Capability (Cpk), Statistical Principles

Tools & Software: SolidWorks, AutoCAD, MATLAB, Arduino, C++, Python (Basic), Raspberry Pi, Figma, FEA, DFMEA, PLM Systems, Microsoft Excel (Data Analysis, Pivot Tables), Microsoft Access (Database Design)

Prototyping & Manufacturing: Rapid Prototyping, Injection Molding, Machine Shop, Manufacturing Processes, Lab Analysis, Consumer Electronics, PCB Design

Cross-Functional Work: DfX Compliance, Technical Writing, Oral and Written Communication, Project Leadership, Analytical Thinking