Anoushka Bhardwaj

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Summary Statement

Mechanical engineering student with hands-on experience in manufacturing and a strong interest in intuitive design and production processes. Confident communicator with a passion for learning and presenting technical ideas clearly.

Education

University of Massachusetts Amherst *Anticipated May 2026*
Bachelor of Science in Mechanical Engineering, 2.9 GPA

Relevant Courses

Heat Transfer, Fluid Mechanics, Design of Mechanical Components, Dynamics, Thermodynamics, Strength of Materials, Probability/Statistics, Statics, Fundamentals of Transportation, Human Factors Engineering, Statistical Quality Control

Work Experience

Indorama Ventures, Ho Chi Minh City – Mechanical Engineering Intern *Dec'24 - Feb'25*

- Gained hands-on experience with blow molding via the TECH-LONG CPX06 and hot/cold mold systems.
- Shadowed Production Manager to observe large-scale manufacturing operations.
- Studied preform production using Husky machines and key process parameters.
- Assisted in defect detection and analysis of short shots, flash, and stress marks.
- Delivered findings and process insights in a final report to the Production Manager.

General Mills, New Delhi – Project Intern *Jun'22 - Sep'22*

- Developed loyalty program strategy for the India Bakeries and Foodservice division.
- Conducted secondary research on FMCG loyalty, referral, and rewards programs.
- Interviewed bakers and bakery operators to gather practical insights.
- Delivered a strategic toolkit with loyalty models and an implementation roadmap.

Academic Projects

Lightweight Modular Wrench – Design Project *Spring Semester 2025*

- Designed a two-part wrench with ABS jaw and aluminum handle under 70g.
- Contributed to CAD modeling, FEA simulation, and by-hand stress analysis.
- Oversaw machining, thermal press-fit assembly, and testing to 18 lb-ft torque.
- Co-authored final report detailing design, testing, and future improvements.

High-Entropy Alloy – Research Project *Fall Semester 2022*

- Analyzed structure, slip systems, and fracture behavior of NbTaMoW.
- Focused on refractory metals for high-temperature engineering use.
- Interpreted microscopy and phase behavior data.
- Co-authored report on mechanical performance and applications.

Technical Skills

MATLAB, LaTeX, Word, Excel, PowerPoint, Blender, Bandsaw machine, Milling machine, ANSYS Workbench.

Interests

Basketball, community service, golf, reading, history, current affairs, and independent language learning.