Thomasina Lester

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EDUCATION

Columbia University   New York, NY
Bachelor of Science in Industrial Engineering, Minor in Computer Science   *September 2021 – May 2025*
- ***Industrial Engineering Coursework***: Production and Inventory Planning, Production Scheduling, Human Factors: Performance, Human-Centered Design and Innovation, Project Management, Operations Research in Public Policy
- ***Data Science Coursework***: Data Analytics and Machine Learning for Operations Research, Statistics and Data Analysis, Business Analytics, Finance and Structuring for Data Science, Introduction to Databases

EXPERIENCE

Procter & Gamble   Mehoopany, PA
Incoming Manufacturing Engineer   *June 2025*

Washington Metropolitan Area Transit Authority   New Carrollton, MD
Reliability Engineering and Performance Analysis Intern   *June 2024 – August 2024*
- Compiled, cleaned, and validated asset information for 400 rail switches, including 6+ months of operations data.
- Performed in-depth data analysis with Excel to identify relevant trends in queried failure data and produce clear visualizations for automatic train control and maintenance planning groups.
- Crafted reliability-centered maintenance recommendations based on varying switch environments and usage levels.

L.L.Bean   Freeport, ME
Industrial Engineering Intern   *May 2023 – August 2023*
- Conducted thorough time-motion studies with 7.5+ hours of video footage to identify inefficiencies and define best practices in order returns process.
- Created process maps and detailed documentation for material handling and merchandise preparation workflows.
- Evaluated 200 workstations in packing department with focus on ergonomic improvement and standardization.

LEADERSHIP

Institute for Operations Research and the Management Sciences   Columbia University
Co-President   *September 2024 – May 2025*
- Lead 8 board members in planning and executing ~15 academic, professional, and social events for 50+ students.

Vice President of Administration (Secretary)   *September 2023 – May 2024*
- Maintained accurate internal documentation related to university procedures, funding requests, and annual reports.

Organizational Committee Member   *September 2021 – May 2023*
- Promoted organization's vision and mission by coordinating event logistics and initiating alumni outreach.

Society of Women Engineers   Columbia University
Member   *September 2021 – May 2025*
- Mentor first-year engineering students, fostering a strong support system for their academic and career interests.

Women in Computer Science   Columbia University
Member   *September 2021 – May 2025*
- Attended the 2023 Harvard WECode Conference, the largest student-run conference for women in technology.

SKILLS

Tools: Timer Pro Professional, IBM Maximo, AutoCAD, Microsoft Office (Word, Excel, PowerPoint, Visio)
Programming Languages: Python (scikit-learn, gurobipy, pandas, NumPy), SQL (PostgreSQL, Oracle), Java
Certifications: OSHA 10-Hour General Industry (Manufacturing)