

Amanda Lombardo

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Project Manager | Operations Strategist | STEAM Educator

EDUCATION

Columbia University, School of Professional Studies - *Master of Science, Information and Knowledge Strategy*

The Cooper Union for the Advancement of Science and Art - *Bachelor of Engineering, Mechanical Engineering*

EXPERIENCE

Associate Director of Science, Technology, Arts, & Creativity

NYU Gallatin Experiential Learning - New York, NY | January 2026 - Present

Capital Planning & Facilities Development | Operations Management & Strategy

- Lead strategic planning, operational development, and implementation plan of new makerspace opening in 2028, defining workflows, equipment specifications, space requirements, and operational infrastructure from concept stage onward.
- Serve as primary operational stakeholder in the makerspace design process, partnering with faculty, architects, engineers, and university leadership to translate academic priorities into facility and equipment requirements, workflow design, and space planning.
- Develop complete makerspace operational model, including staffing strategy, safety programs, standard operating procedures, training documentation, equipment management systems, and user policies, creating foundational processes.
- Direct day-to-day operations of existing makerspace, including supervision and development of student staff, management of equipment and resources, and development of workshops and events supporting student engagement.
- Build strategic partnerships with faculty across disciplines to develop new curricular initiatives, research opportunities, and creative programming that integrate making into the Gallatin educational experience.
- Lead planning and operational management for new interdisciplinary art-science space on Governors Island, managing project timelines, operational logistics, and cross-functional coordination among artists, IT, facilities, and safety teams.

Manager of Instructional Laboratories

Columbia University Mechanical Engineering Department - New York, NY | July 2023 - January 2026

Project Management | Learning & Development | Team Leadership

- Directed the daily operations of two instructional engineering laboratories serving more than 300 undergraduate and graduate students annually.
- Led the \$200K+ renovation of two laboratories, modernizing facilities and enhancing the student learning experience.

- Managed a \$150K annual operating budget, including procurement, vendor management, purchasing, and financial reconciliation.
- Supervised three professional staff members and more than fifteen student employees.
- Created comprehensive laboratory standard operating procedures, safety documentation, and competency-based equipment training programs.
- Collaborated with faculty to enhance laboratory curriculum, improve instructional experiences, and support project-based learning.
- Managed use of laboratory spaces for eight undergraduate and graduate level courses, including coordinating with faculty on laboratory use, assisting with course budgets, and maintaining inventories.
- Consulted on grant proposals supporting expanded experiential learning opportunities across multiple departments.
- Fostered interdepartmental collaboration to expand student access to equipment.
- Served on departmental committees focused on laboratory enhancement, undergraduate education, and shop safety.

Senior Laboratory Technician

Columbia University Mechanical Engineering Department - New York, NY | August 2019 - June 2023

Technical Instruction | Process Optimization | Student Support

- Delivered training and technical support for students on laboratory equipment including laser cutters, 3D printers, universal testing machines, and wind tunnels.
- Supported students in the design and implementation of class and research projects.
- Managed remote instruction logistics and designed safety and reopening operational protocols during and after the COVID-19 pandemic.
- Maintained laboratory inventory, performed purchase reconciliation, and coordinated billing for materials.
- Advised Columbia's Formula SAE student team and served as competition supervisor.

PUBLICATION

Bartolomeo, M. V., Lombardo, A., Colella, M., & Delagrammatikas, G. J. (2019, June), *Measuring the Traction Limits and Suspension Forces of a Formula SAE Racecar*. Paper presented at 2019 ASEE Annual Conference & Exposition, Tampa, Florida. 10.18260/1-2--33096

SKILLS

Strategic Planning & Leadership: Organizational Change Management | Capital Project Planning | Facility Development | Process Improvement | Operations Strategy | Equipment Planning & Procurement

Project Management: Agile | Knowledge Management | RASCI | Budget Administration | SOP Development

Learning and Development: Instructional Design | Technical Training | Curriculum Development | Design Thinking | Experiential Learning | Team Development

Software: Google Workspace | Microsoft Office | Adobe Creative Suite | Asana | Canva | LMS Platforms