

Monika Herrmann, Professor, University Wisconsin-Stout
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Professional Experience

Professor, University Wisconsin Stout, Engineering & Technology Department
Program Director, Engineering Technology Program, University WI Stout (2015-2019)
Architect, Interior Architect, Architectural Firms in the USA, and Germany

Education

Licensed Architect, Wisconsin (9657)
NCARB certified, National Council of Architectural Registration Board
Master of Architecture (MArch)
Licensed Interior Architect, Germany (until 2023)
Diplom Ingenieur Interior Architecture, Germany
Certified Passive House Consultant (2014)
LEED accredited professional (2006)

Professional Societies

National Council of Architectural Registration Boards (NCARB)
American Society for Engineering Education (ASEE)

Professional Engagement:

- SpaceGrower LLC, Menomonie, WI (2011- 2025)
Architect, Owner: Residential Design, Sustainability Consulting
- Architectural Firms in the USA (2000-2011)
Project Architect: Public, Commercial, Residential and Institutional Projects, Sustainability
- Architectural Firms in Germany (1986-1996)
Architectural Designer, Interior Architect: Residential, Institutional, Hospital Projects, Sustainability

Courses taught at UW Stout (Excerpt):

- **ETECH-256 Engineering Graphics Fundamentals and Solid Modeling**, parametric modeling, technical drawings, and assemblies with SolidWorks; renderings and animation with SolidWorks-Visualize.
- **ETECH-315 Communication of Engineering Design II**, development of effective technical communication skills between design, engineering, and manufacturing disciplines. Project planning, advanced solid modeling, assembly, and drafting techniques to support and solve engineering and design problems.

- **ETECH-201 Communication of Engineering Design I**, sketching, engineering graphic standards, dimensioning and tolerancing concepts. Parametric modeling, technical drawings, and assemblies with SolidWorks. Rendering and animation with SolidWorks Visualize.
- **ETECH-112 Engineering Graphics Fundamentals**, sketching, engineering graphic standards, and Autodesk AutoCAD.
- **AEC-237 Architectural Technology**, space programming and planning, working drawings for commercial and industrial buildings. Building codes, energy requirements, construction contract documents, structural materials, and systems, building materials and systems.
- **AEC-233 Architectural Design I**, site planning, residential space requirements, building codes, structure, finishes, mechanical and electrical systems. Graphic simulation techniques incl. Autodesk AutoCAD/ Revit.
- **AEC-191 The Built Environment (GE course)**, construction and its relationship to resources, materials, and the culture in which it takes place. Emphasis on how, why, and by whom structures are built and what can be learned from them.
- **ENGGR-134 Computer Assisted Design and Building Information Modeling**, digital 2D and 3D (BIM) project views essential to the building industry incl. Autodesk Revit
- **AEC-131 Architectural Graphics**, sketching, graphic standards, and Autodesk AutoCAD.

Presentations and Publications (Excerpt):

- Herrmann M., Baltaci K., (2023-24). **Active Learning in Electronics with Customized Printed Circuit Boards**. Presented at the American Society of Engineering Education (ASEE) annual conference.
- Herrmann M., Baltaci K., Verma A. (2022). **Space Matters - Interdisciplinary Collaboration to Engage Students' Interest in Renewable Energy Concepts**. Presented at the American Society of Engineering Education (ASEE) annual conference in Minneapolis, MN.
- Herrmann, M., Richter-O'Connell D. (2019). **Lost in Translation _ Diverse Means of Design Communication**. Presented at American Society of Engineering Education (ASEE), EDGD 74th Midyear conference, Norfolk, VA.
- Herrmann, M. (2018) Self-Reliance - **Applying UD from Architecture to the Classroom**. In Zaloudek, J., Chandler, R., Carlson, K., Howarton, R. *Universal Design for Learning – Teaching to ALL College Students* (pp. 199-211) Menomonie, WI: Nakatani Teaching and Learning Center. ISBN 978-1-943290-63-5, Library of Congress Number: 2018940318
- Johnson, J., Herrmann, M., Schofield, N. (2018). **Benches from Ash: A Collaboration**. Presented at the International Urban Forestry Congress (IUFC), Vancouver, Canada.

- Chida, M., Howarton, R., Herrmann, M., Mullins, K., Zagorski, K. (2018). **HIP-High Impact Practice _ Collaborative Assignments and Projects**: *applying high impact classroom practices to out of the ordinary learning challenges*. Presented at the Office of Professional & Instructional Development (OPID) annual conference, Madison, WI.
- Herrmann, M. (2017). **Review-Revise-Reflect**: *principles of metacognition to stimulate engagement in early college education*. Presented at American Society of Engineering Education (ASEE), annual conference, NMW Section, Minneapolis, MN.
- Herrmann, M. (2017). **Universal Design in Learning**: *a teaching training module* (online video) available to faculty on the UW Stout “Desire-to-Learn” (D2L) platform.
- Herrmann, M. (2015). **Confidence - A Path to Mastering Challenge**: *exploring strategies to strengthen students’ confidence in graphical expression through transformative experiences*. Presented at Am. Society of Engineering Education (ASEE) 122nd Annual Conference and Exposition, Seattle, WA.
- Herrmann, M. (2013). **LEED Certification Fundamentals** _ *understanding the core concept of the LEED rating system and how it can apply to civil engineering*. Presented at the section meeting of the American Society of Civil Engineers (ASCE), Menomonie, WI.