



**D E S I G N
R E S E A R C H
E N G I N E E R I N G**

46475 Desoto Court
Novi, Michigan 48377
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LAUREL SEIDENSTICKER, B.S.M.S.E.
Project Engineer

PROFESSIONAL SPECIALIZATION

Investigates issues related to metallurgy, materials performance, dynamic processes, and fluid dynamics. Experience includes system and component testing, mechanical and microstructural testing and analysis. Strong background in computational engineering tools and experimental materials characterization, including data analysis, modeling, simulation, and advanced analytical techniques.

Scientific and Engineering Tools

Data Analysis & Programming - MATLAB, RStudio

Design & Modeling - SolidWorks (CAD)

Finite Element Analysis & Simulation - Ansys, Moldex

Scientific Visualization - ImageJ, VESTA

Materials Characterization & Testing

Mechanical properties testing - Hardness (Rockwell & Vickers), Tensile (metallic & polymer/composite samples)

Metallographic Sample Preparation

Microscopy & Imaging - Optical Microscopy, Scanning Electron Microscopy

Structural & Chemical Analysis - X-ray Diffraction, Energy-Dispersive X-ray Spectroscopy

Thermal & Rheological Analysis - Differential Scanning Calorimetry, Rheometry

EDUCATION

Bachelor's Degree in Materials Science and Engineering (B.S.M.S.E.) , Minor in French
Michigan State University, East Lansing, MI

PROFESSIONAL BACKGROUND

Design Research Engineering, Novi, MI June 2026 – present
Project Engineer

Facility for Rare Isotope Beams, East Lansing, MI May 2025 – May 2026
Student Technical Assistant

National Museum of Transportation, Kirkwood, MO May 2022 – Jan 2025
Assistant

AFFILIATIONS/ACHIEVEMENTS

Women in Engineering – Mentor, Michigan State University (MSU) Sept. 2023 – May 2026

MSU Spartan Sierra Club – Treasurer May 2025 – May 2026

MSU Dean's List - GPA 3.92/4.0 (8 semesters)

June 2026