

Erin Meyer

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A second year Materials Science and Engineering student at Michigan Tech with hands-on experience in metallography, EDS, microscopy, safety, leadership, curriculum design, and technical instruction. Skilled in MATLAB, Microsoft Suite, and process-driven problem solving. Eager to contribute to metallurgical and manufacturing industries and looking for a 2027 summer internship.

Professional Projects

Internal Microscope Calibration Procedure Development	Summer 2026
- Built an Excel-based calibration procedure with Copilot-driven VBA automation based on ASTM E1951	
JENQC Sample Preparation Process Variation Study	Summer 2026
- Performed a Six Sigma-driven process variation study across three grinding systems for Inconel 718 samples	
Thermocouple Fabrication Workstation & Procedure Development	Summer 2026
- Engineered a thermocouple fabrication workstation; produced formal SOPs and documentation	
Woodworking Curriculum Redesign for Camp Anokijig	August 2025 - May 2026
- Led a comprehensive redesign of the woodworking curriculum; creating 45+ adaptable, hand-drawn, non-CAD project patterns for a wide range of skill levels	

Professional Experience

R&D Materials Characterization Intern – Carpenter Technology Corporation, Reading, PA	May - August 2026
- Performed characterization of stainless steels, superalloys, and additive manufacturing samples	
- Supported an XRD texture characterization study of NiFe High Perm strip	
- Authored clear, technically rigorous reports summarizing characterization work across multiple alloys	
Course Development Support Specialist – Center for Faculty Excellence, Houghton, MI	February 2026 - Present
- Rebuilds and standardizes courses for online instruction	
- Creates new digital learning materials from outlines and source documents	
Senior Staff Counselor & Lifeguard – Camp Anokijig, Plymouth, WI	May 2025 – August 2025
- Served as senior staff counselor for the woodworking program for campers ages 7-17	
Hospitality Team Member – Town & Country Golf Course & Restaurant, Sheboygan, WI	August 2021 – May 2025
- Delivered attentive service in dining and banquet settings through hosting, serving, and bussing tables	

Leadership, Volunteer Work, & Campus Involvement

Secretary – Michigan Tech Material Advantage & American Foundry Society Chapter	April 2026 - Present
- Organizes social and networking events, coordinates conference travel and accommodations, and supports campus-wide outreach with students, faculty, and industry partners	
Huskies Pep Band at Michigan Tech	August 2025 - Present
Pavlis Honors College at Michigan Tech	August 2025 - Present
Hall President, Mafia – Wadsworth Hall Student Association at Michigan Tech	September 2026 - Present
Hall President, West End Warriors – McNair Hall Association at Michigan Tech	November 2025 - April 2026
Gold Knight – Anokijig Knighthood	June 2025 - Present
Junior Staff Counselor – Camp Anokijig, Plymouth, WI	1,560 hours from 2024 - 2025

Education

Michigan Technological University , Houghton, MI	Expected Graduation: Spring 2029
- Major: Materials Science and Engineering	
- GPA 3.40	
- Coursework in Characterization, Crystallography, Microstructure, & Ceramics,	
George D. Warriner High School for Personalized Learning , Sheboygan, WI	September 2024 - June 2025
- UWGPA: 3.98	
Kohler High School , Kohler, WI	September 2022 - September 2024
- UWGPA: 4.00	

Skills

Accessibility Trained | EDS | XRD | NDT | Event Planning & Leadership | EXCEL | MATLAB + Arduino Integration | Metallographic Preparation | Microsoft Suite | Google Suite | OnShape CAD Design | Pattern Drafting

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