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Ryan Gast is a Staff Consultant for Engineering Systems Inc. (ESi) in the Materials practice group. Prior to joining ESi, he worked as a research assistant and was involved in projects centered around aluminum and magnesium alloys. He performed analysis of fracture surfaces, grain growth, fatigue lifetime, crack growth, and twinning within alloys. He has experience in metallurgical analysis methods such as metallography, optical microscopy, scanning electron microscopy (SEM), electron backscatter diffraction (EBSD), and energy dispersive X-ray spectroscopy (EDS).

**Areas of Specialization**

Metals  
Polymers & Composites  
Lab & Industrial Services  
Failure Analysis

**Education**

M.S., Materials Science and Engineering, University of Michigan, Ann Arbor, MI, 2022  
B.S., Materials Science and Engineering, University of Michigan, Ann Arbor, MI, 2023

**Positions Held**

Engineering Systems Inc., Dallas, Texas  
Staff Consultant, 2023 – Present

University of Michigan College of Engineering  
Materials Science & Engineering Research Assistant, 2022 – 2023

Consumer Affairs, Tulsa, Oklahoma  
Intern, 2021

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