

Adalyne Muralles

Failure Analysis Engineer

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MO 63101

Education

**Master of Science in Materials
Science and Engineering
at Missouri University of
Science and Technology,
Rolla, MO**

Sep 2018 - May 2022

Relevant Coursework:
Materials Science, Engineering
Materials, Nanomaterials,
Biomaterials, Polymer Science,
Electronic Materials, Materials
Characterization, Mechanical
Behavior of Materials, Materials
Processing, Thermodynamics,
Computational Materials
Science, and Materials Selection
in Mechanical Design.

Links

[linkedin.com/in/adalynemuralles](https://www.linkedin.com/in/adalynemuralles)

Skills

FMEA (Failure Modes and Effects
Analysis)

Fault Tree Analysis

Weibull Analysis

Root Cause Analysis

Finite Element Analysis

Nondestructive Testing

Reliability Engineering

Languages

Profile

Dedicated Failure Analysis Engineer with 1 year of experience in identifying root causes of product failures and implementing effective solutions. Proficient in various analytical techniques and tools, with a strong aptitude for problem-solving and meticulous attention to detail. Demonstrated ability to collaborate with cross-functional teams and contribute to continuous improvement initiatives.

Employment History

Failure Analysis Engineer at Engineering Systems Inc. (ESI), MO

May 2023 - Present

- Led a team of engineers in conducting over 50 comprehensive failure analysis investigations, resulting in a 95% success rate in determining root causes and providing actionable recommendations to clients.
- Successfully identified and resolved critical design flaws in a major automotive component, saving the client an estimated \$2 million in potential warranty claims and recalls.
- Developed and implemented a streamlined process for evaluating and testing electronic components, reducing testing time by 30% and increasing overall efficiency within the department.
- Presented findings from a high-profile failure analysis investigation at a national engineering conference, showcasing ESI's expertise and solidifying its reputation as a leader in the industry.

Associate Failure Analysis Engineer at Exponent, MO

Aug 2022 - Apr 2023

- Successfully identified the root cause of failure in 95% of over 50 complex engineering systems within the first year, enabling clients to implement corrective actions and reduce downtime by 30%.
- Conducted comprehensive fracture analyses on 100+ materials, leading to a 40% reduction in material-related failures and saving clients an estimated \$1.5 million in potential costs.
- Developed and implemented a streamlined failure analysis process that reduced investigation time by 20% and increased overall team efficiency by 15%.
- Collaborated with cross-functional teams to resolve 10 high-priority cases within strict deadlines, resulting in client satisfaction rates of over 90% and securing long-term contracts worth \$2 million.

Certificates

Certified Reliability Engineer (CRE)

Dec 2021

Failure Modes and Effects Analysis Professional (FMEA-P)

Mar 2020