

# MARGARET T. BUSH, E.I.T.

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•P.O. Box 6100, St. Cloud, MN 56302 •  
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## SUMMARY

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Metallurgical Engineer with experience in mechanical testing, failure analysis, and project management.

## EXPERIENCE

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METALLURGICAL ENGINEER  
*Engel Metallurgical Ltd.*

MAY, 2005 TO PRESENT  
*St. Cloud, MN*

Provide metallurgical and materials joining testing services to a wide variety of clients in the manufacturing industry.

Perform failure analyses of products manufactured from various materials, including metals, cermets, and plastics.

Assist in providing metallurgical consulting services to a wide variety of clients in the manufacturing, legal, and insurance industries.

Assist in providing manufacturing clients with materials and process selection and problem solving.

MATERIALS LABORATORY CO-OPERATIVE STUDENT  
*Mercury Marine*

MAY, 2004 - JANUARY, 2005  
*Fond du Lac, WI*

Performed failure analyses on various metal marine engine components.

Performed material checks on gray iron and steel parts, including chemistry by optical emission spectrometry, microstructure ratings, and hardness testing.

Responsible for documentation and performance of corrosion testing per ASTM and Mercury Marine Specifications.

Analyzed debris using a scanning electron microscope.

MATERIALS LABORATORY INTERN  
*BorgWarner Powertrain Technical Center*

JUNE - AUGUST, 2003  
*Auburn Hills, MI*

Performed mechanical and metallurgical testing on various steel, aluminum, and copper-based materials.

Maintained laboratory facilities and ordered consumables and supplies.

**EDUCATION**

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BACHELOR OF SCIENCE, MATERIAL SCIENCE AND ENGINEERING  
*Michigan Technological University*

APRIL, 2005  
*Houghton, MI*

**PROFESSIONAL**

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Member of ASM International

Engineer In Training in Minnesota