

Jeffry Abel, PE | Senior Mechanical Engineer

7667 Cahill Road, Suite 250, Edina, MN 55438

800-326-5913 jeffry.abel@efiglobal.com

Professional Summary:

Mr. Abel is a Mechanical Engineer that has worked on projects in the commercial, industrial, residential, defense, and other sectors. He has a diverse and complimentary background. His combination of technical knowledge and practical application allows him to bring a unique perspective to solving problems.

Mr. Abel has background that includes product and system design and development, research and development, product and system performance and verification testing, failure analysis, structural design and analysis, product and system evaluation and more.

Some notable losses that Mr. Abel has worked include hydrochloric acid fabrication plant failures, ethanol plant equipment damage, plumbing failures, agriculture equipment failures, heavy equipment failures, garbage truck fire, gas heater failures, fireplace and chimney fires, residential and commercial structural failures, fire damaged equipment, LP and natural gas equipment, and sprinkler system failures. His experience includes, but is not limited to the following:

- Product Failure Mechanical
- Electronics cooling system design and failure analysis
- Equipment Damage Evaluation
- HVAC and Geothermal Systems
- Structural Failure
- Industrial Equipment
- Automation Equipment
- Fire Sprinkler Failure
- Roofing Evaluation
- Storm Damage Evaluation
- Hail Damage
- Plumbing Failures
- Heavy Equipment Failure
- Logging Equipment Failure
- Manlift/Forktruck Failures
- Agricultural Equipment Failure
- Wind Turbine Failure

Licenses and Certifications:

Professional Engineer, MN, #45956

Professional Engineer, WI, #32076-6

Professional Engineer, ND, #PE-8302

Professional Engineer, SD, #11543

Professional Engineer, IA, #21323

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Professional Engineer, NE, #E-16709

Professional Engineer, WA, #22014291

Professional Engineer, OR, #100742PE

Professional Engineer, FL, #PE95523

Professional Experience:

EFI Global, Edina, MN, Engineer, 2015 - Present

Normandale Community College, Bloomington, MN, Engineering Faculty 2021 - Present

Century College, White Bear Lake, MN, Engineering and ECAD Faculty, 2012 - Present

North Hennepin Community College, Brooklyn Park, MN, Engineering Faculty, 2013 - Present

Donan Engineering, Minneapolis, MN, Forensic Mechanical Engineer, 2012 -2013

Abel Mechanical Engineering, Lino Lakes, MN, Owner, 2010 - 2012

Guidant Corporation/Boston Scientific, Arden Hills, MN, Mechanical R&D Engineer, 2002 - 2010

Abel Mechanical Engineering, Waukesha, WI, Owner, 1998 – 2002

Eaton Corporation, Milwaukee, WI, Mechanical Engineer, 1993 – 1998

Specialized Education:

- GWO Basic Technical Training Hydraulic, Mechanical, Electrical, 2022
- GWO Basic Safety Training, 2022
- Adult First Air/CPR/AED HSI Certified, 2022

Education:

Master of Science, Mechanical Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, 1993

Bachelor of Science, Mechanical Engineering, Michigan Technological University, Houghton, MI, 1991

Affiliations:

- National Society of Professional Engineers
- American Society of Gas Engineers

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Courses Instructed/ Guest Lecturer:

- Interpreting Engineering Drawings Century College White Bear Lake, Minnesota
- Advanced Solidworks Century College White Bear Lake, Minnesota
- Introduction to Solidworks Century College White Bear Lake, Minnesota
- Using SolidWorks, Guest Lecturer, AEM Senior Design Course University of Minnesota Minneapolis, Minnesota
- Deformable Body Mechanics Century College White Bear Lake, Minnesota
- Intro to Engineering Century College White Bear Lake, Minnesota
- Intro to Engineering North Hennepin Community College Brooklyn Park, Minnesota
- Intro to Engineering Normandale Community College Bloomington, Minnesota
- Statics Century College White Bear Lake, Minnesota
- Statics North Hennepin Community College Brooklyn Park, Minnesota
- Dynamics Century College -White Bear Lake, Minnesota
- Manufacturing and Materials Century College White Bear Lake, Minnesota
- How to Make Almost Anything/Digital Manufacturing Century College White Bear Lake, Minnesota
- Blueprint Reading Century College White Bear Lake, Minnesota
- Blueprint Reading for Solar Installers Century College White Bear Lake, Minnesota
- Foundations of Math Rasmussen College Blaine, Minnesota
- Sections of Fundamentals of Engineering Review Course Minnesota Society of Professional Engineers, St. Paul, Minnesota
- Sections taught include: Math I, Math II, Math III, Probability and Statistics, Computational Tools, Heat Transfer, Statics, Dynamics, Mechanics of Materials, Material Properties and Testing, Measurement Instrumentation and Controls
- Sections of Mechanical Professional Engineering Review Course Minnesota Society of Professional Engineers, St. Paul, Minnesota
- Sections taught include: Statics, Dynamics, Mechanics of Materials, Heat Transfer, Mechanical Systems and Materials Depth Q&A

Honors and Awards:

Extra Mile Award, Minnesota Society of Professional Engineers, 2009

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