

## Jeffry J. Abel | Mechanical Engineer, PE

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### 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 plumbing failures, agriculture 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
- Logging Equipment Failure
- Manlift/Forktruck Failures

### 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  
Professional Engineer, NE, #E-16709

### Professional Experience:

EFI Global, Edina, MN, Engineer, 2015 - Present  
Century College, White Bear Lake, MN, Engineering and ECAD Faculty, 2012 - 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

### 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 (NSPE)  
Minnesota Society of Professional Engineers (MnSPE)

### Courses Instructed/ Guest Lecturer:

Using SolidWorks – University of Minnesota Guest Lecturer – Minneapolis, Minnesota

Statics – Century College – White Bear Lake, Minnesota  
Dynamics – Century College – White Bear Lake, 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  
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  
Manufacturing and Material – 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